

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

SEP 1 6 2004

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Ms. Rhonda M. Mannion Monsanto Company, Lawn & Garden Products 1300 I Street N. W., Suite 450 East Washington, DC 20005

Dear Ms. Mannion:

Subject: Roundup Weed & Grass Killer Concentrate Plus (Revise Master Label)

EPA Registration No. 71995-29 Application Dated August 18, 2004

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended is acceptable. Amended labeling will supercede all previously accepted ones. A stamped copy of labeling is enclosed for your records.

Sincerely,

Jukie (C Walters for James A. Tompkins Product Manager 25

Herbicide Branch

Registration Division (7505C)

[Editorial Notes: Bracketed text [] is for internal use or serves as a 'place holder' for graphics. Parenthetical text () denotes optional wording.]

[Refer to APPENDIX 1 for consolidated list of label claims.]

[Refer to APPENDIX 2 for packaging related claims/instructions]

Roundup Weed & Grass Killer Concentrate Plus

Alternate Brand Name: MON 78307 Herbicide

ACCEPTED

SEP 1 6 2004

Under the Federal Insecticide,

KEEP OUT OF REACH OF CHILDREN CAUTION

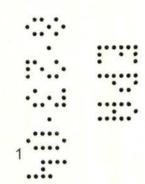
Other Ingredients81.27 %

See back panel booklet for additional precautionary statements. (Read precautions and directions on back label.)

NET [xxx]

71995-29

EPA Approved 12 July 2004 Notification dated 14 July 2004 Amendment Submitted 18 August 2004



Product F	acts
	to X gallons [see Appendix 2 for calculation]
	to xx sq ft (approx. size of XX tennis courts)
	Iculating coverage, one gallon treats 300 sq ft and a tennis court is 2,808
KILLS WEEDS	[Illustrate grassy, broadleaf and woody weeds] ALL TYPES OF WEEDS & GRASSES
WHERE TO USE	 On patios, walkways, driveways, gravel or mulch beds Around flowers, shrubs or trees
	Along fences
	In large areas - For lawn replacement
	 For garden plot preparation* Other areas in (of) your yard
vegetable	ANT: While Roundup Concentrate Plus may be used to prepare a garden for planting, DO NOT USE for spot weed treatment after planting or vegetables.
AMOUNT	For best results
TO USE	 6 fl oz (12 Tbs) per gallon of water Apply on warm days in bright sunlight
[phone ico	n] Questions, Comments or Medical Information call (insert contact #) www.roundup.com

[For products where an anti-theft device has been added] This bottle contains an anti-theft device, either inside or on the back of the bottle. It does not affect [Insert Brand Name] performance.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

MIXING INSTRUCTIONS

[Optional tank sprayer illustration]

Tank Sprayer (plastic, aluminum, fiberglass, plastic-lined steel or stainless steel. (Do not (mix, store or) apply with (in) a galvanized or unlined steel sprayer.)

- (For tough established weeds / For best results,) add 6 fl oz (12 Tbs) to 1 gallon of water.
- [Optional text] (For easy to kill weeds such as (small) seedlings, add 3 fl oz (6 Tbs) to 1 gallon of water.
- · Spot treat or spray evenly over 300 sq ft

[Optional DNS illustration]

Hose-End Sprayer

For large areas consider using the Ortho Dial 'n Spray®

- Set dial to 6 oz.
- To sprayer jar add 6 fl oz (12 Tbs) for each 300 sq ft. DO NOT add water.
- Spray evenly over measured area.
- · After spraying, unused product can be poured back into its original container.

1 Tablespoon (Tbs) = 3 teaspoons (tsp)

1 fl oz = 2 Tbs

Do not (mix, store or) apply with (in) a galvanized or unlined steel (except stainless steel) sprayer, or through any irrigation system.

To clean sprayer after use, rinse sprayer and all sprayer parts with water 3 times. Spray rinse water on bare soil or gravel. After cleaning, sprayer may be used for other products.

USER SAFETY RECOMMENDATIONS [optional illustration]

- Clothing and protective equipment exposed to this product should be washed in detergent and hot water. Such items should be kept and washed separate from other laundry.
- Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Users should remove clothing immediately if product gets inside; then wash thoroughly and put on clean clothing.

HOW TO APPLY [optional illustration]

- · Spray the weeds or grasses you want to kill until thoroughly wet.
- When spot treating weeds around desirable plants, shield plants from drift with a sheet (piece) of cardboard or plastic. If desirable plants are accidentally sprayed, rinse off immediately with water (or cut off treated area).

IMPORTANT: Do not spray plants or grasses you like - they will die. Not recommended for spot weed control in lawns since Roundup [or insert brand name] kills lawn grasses.

Application Restrictions: Do not apply this product in a way that will contact any person or pet, either directly or through drift. Only the person applying this product may be in the area during application.

WHEN TO APPLY [optional illustration]

- Use anytime weeds and grasses are actively growing. (Apply when weeds are actively growing.)
- For best (fastest visual) results, apply during warm, sunny weather (above 60° F) to accelerate systemic movement from foliage to roots.
- Apply when air is calm to prevent drift to desirable plants.
- [Insert brand name] is Rainproof in 2 hours (30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes)
- [Alternate text] (RAIN-PROOF:) Rain or watering 2 hours (30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes) after (of) application will not wash away effectiveness.
- [optional text]Apply when weeds are small and before seeds form. Established (Hard to kill) weeds may require a repeat application.

ADDITIONAL TIPS [Optional section] [optional illustration]

For Lawn Replacement

Use [Insert brand name] to kill a (an old) (an unwanted) lawn and (its) weeds before planting (a) new lawn (OR prior to laying a patio, sidewalk, or driveway).

[Alternate text] For lawn replacement use [insert brand name] to kill lawn and(&) weeds before planting new lawn.

- Skip one mowing before spraying.
- If soil is dry, water before application and 2 to 3 days after application.

71995-29

EPA Approved 12 July 2004 Notification dated 14 July 2004 Amendment Submitted 18 August 2004

- Wait 7 days after last application to rake, till or replant with seed or sod. [Alternate text]
 - Wait 7 days for weeds and lawn to die. Repeat if necessary.
 - Rake or till to prepare area for planting seed or sod.
- (If green patches remain after 7 days, reapply.)

[Alternate section]

(Great) [Insert brand name] Project: Lawn Renovation

Use [Insert brand name] to kill sections of a weed-infested lawn before reseeding.

- Apply [Insert brand name] to lawn weeds and grasses Wait 7 days after application to rake, till or replant with seed or sod.
- Work (1" of) Scotts Lawn Soil with Starter Fertilizer into existing soil, mixing well.
- For thick, green grass guaranteed -- spread Scotts Pure Premium (or other Scotts grass seed) and water regularly (daily) to keep area moist (follow package instructions).
- For best results, add a thin layer of Scotts Miracle-Gro Sphagnum Peat Moss (or Scotts Lawn Soil) over the area to help seeded area stay moist throughout germination period.

· For Flowerbed and Garden (Plot) Preparation

Use [Insert brand name] to kill weeds, grasses and brush before planting flowers, fruits, vegetables, trees or shrubs.

- If soil is dry, water before application and 2 to 3 days after application.
- Apply evenly over treatment area.
- (Wait 4 to 6 days for product to kill plants then cleanup plant refuse and till soil.)
- Wait (at least) 1 day before planting flowers, trees and shrubs. (Refer to the When To Replant section for planting intervals for fruits and vegetables)

[Alternate section]

- (Great) [Insert brand name] Project: Garden(Plot) Preparation
 Use [insert brand name] to kill unwanted weeds and grasses before planting flowers,
 fruits, vegetables, trees or shrubs.
 - Apply [insert brand name] to vegetation in planting bed
 - (Wait 4 to 6 days for product to kill plants then cleanup plant refuse and till soil.)
 - Wait (at least) 1 day after application before planting flowers, trees, and shrubs. (Refer to the When To Replant section for planting intervals for fruits and vegetables)
 - For best results, add 3" of Miracle-Gro Garden Soil to your garden. Rototill or spade to a depth of 6", mixing well.
 - Feed (new) plants every 2 weeks with Miracle-Gro Plant Food (follow package instructions).

To Kill Vines

- If vines are growing up poles, fences, or tree trunks with mature bark, cut vines to a height of 3 to 4 feet and spray vines thoroughly.
- If vines are climbing shrubs or tree trunks with green bark, cut vines at base and treat as directed for stumps or spray regrowth. If spraying regrowth, shield shrubs and green bark from spray drift with a sheet (piece) of cardboard or plastic.

To Kill Stumps

- Cut living stump close to ground.
- Drive (drill) 4 to 5 holes into freshly cut stump.
- Immediately pour undiluted product into holes.

IMPORTANT: Some trees may share the same root system. Adjacent trees having a similar age, height and spacing may signal shared roots system. Injury may occur to non-treated trees when one or more trees sharing common roots are treated.

Kudzu

For best results, apply in mid to late summer when vines are mature and actively growing.

Wild Blackberry

Spray anytime plants are actively growing. Dead canes should be cut down and removed. Reapplication is often required to kill deep roots.

Poison Ivy & Poison Oak

Contact with these plants anytime of the year can cause an allergic reaction. Spray anytime plants are actively growing, but at least 4 weeks before the first killing frost in the fall. Reapply, if new growth appears. Handle dead plants with rubber gloves. Dispose of plants and rubber gloves in tightly sealed garbage bags.

WHEN TO REPLANT [optional illustration]

- All ornamental flowers, trees and shrubs may be planted 1 day after application.
- Lawn grasses, herbs, vegetables (all), and fruits may be planted 3 days after application.

HOW IT WORKS [optional illustration]

Roundup [or *insert brand name*] enters plants through foliage and moves systemically to the roots, killing weeds by stopping the production of a substance found in plants. Any product (Roundup) [*Insert brand name*] not absorbed by plants will be deactivated after it hits the soil. Weeds usually yellow and wilt within hours with complete kill in 1 to 2 weeks.

[Optional section]

KILLS ALL TYPES OF WEEDS & GRASSES [optional illustration]

Weeds (including): Artichoke thistle, beggarweed, black medic, blue mustard, blue toadflax, brassbuttons, broadleaf plantain, burclover, buttercup, Canada thistle, cattail, chickweed, cocklebur, common groundsel, common mullein, common plantain, common ragweed, creeping beggarweed, creeping-charlie, curly dock, dandelion, dog fennel, evening primrose, false dandelion, fiddleneck, field bindweed (wild morningglory), field pennycress, filaree, Florida pusley, garden spurge, henbit, horsenettle, horseradish, horseweed/ marestail, iceplant, knapweed, knotweed, lambsquarters, lantana, little bittercress, London rocket, mallow, mayweed, milkweed, mouseear chickweed, narrowleaf (buckhorn) plantain, nightshade (silverleaf), oldenlandia, oxalis, Pennsylvania smartweed, pennywort, poison hemlock, prickly lettuce, primrose, prostrate spurge, puncturevine, ragweed, red clover, redroot pigweed, shepherdspurse, smooth catsear, smooth pigweed, sowthistle, spotted spurge, tansy ragwort, tansymustard, teaweed, trumpetcreeper, tumble mustard, Virginia creeper, white clover, whitetop, wild barley, wild mustard, wild oats, wild sweet potato, yellow starthistle, and other broadleaf weeds

Grasses (including): Annual bluegrass, annual ryegrass, bahiagrass, barnyardgrass, bentgrass, Bermudagrass, bromegrass, Cogongrass, crabgrass, creeping bentgrass, dallisgrass, fall panicum, fescue, field sandbur, foxtail, goosegrass, guineagrass, Johnsongrass, Kentucky bluegrass, kikuyugrass, lovegrass, maidencane, nimblewill, nutsedge, orchardgrass, pampas grass, perennial ryegrass, purple nutsedge, quackgrass, sandspur, smooth bromegrass, sprangletop, St. Augustinegrass, tall fescue, Texas panicum, Timothy, torpedograss, vaseygrass, witchgrass, yellow nutgrass, zoysia and other grassy weeds

Brush (Tough Weeds), Unwanted Trees, Shrubs & Vines (including):

Alder, ash, (quacking) aspen, blackberry, bluegum eucalyptus, broom (French, Scotch), buckwheat, ceanothus, chamise, cherry, coyote brush, dewberry, elderberry, elm, eucalyptus, giant reed, hawthorn, hazel, honeysuckle, kudzu, locust, madrone, maple, oak, persimmon, poison oak, poison ivy, poplar, raspberry, sage, sagebrush, salmonberry, saltcedar, sassafras, sumac, sweetgum, tan oak, thimbleberry, tree

71995-29

EPA Approved 12 July 2004 Notification dated 14 July 2004 Amendment Submitted 18 August 2004

tobacco, wild rose (multiflora) willow and other tough weeds

STORAGE AND DISPOSAL [trash can illustration]

PESTICIDE STORAGE: Store in original container in a safe place away from direct sunlight.

DISPOSAL: If empty: Do not reuse this container. Place in trash or offer for recycling if available. If Partly Filled: Call your local solid waste agency (or 1-800-CLEANUP) for disposal instructions. Never place unused product down any indoor or outdoor drain.

HOW TO REFILL ROUNDUP WEED & GRASS KILLER READY-TO-USE CONTAINERS [Optional section]

- 24 fl oz Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 2 fl oz of Roundup Concentrate Plus [Insert brand name for EPA Reg. No. 71995-29] then fill with water very slowly to avoid foaming.
- ½ Gallon Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 5 fl oz of Roundup Concentrate Plus [Insert brand name for EPA Reg. No. 71995-29] then fill with water very slowly to avoid foaming.
- Gallon Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 10 oz of Roundup Concentrate Plus [Insert brand name for EPA Reg. No. 71995-29] then fill with water very slowly to avoid foaming.
- 1.33 Gallon Roundup PNS (II):
 To empty container add 13 fl oz of Roundup Concentrate Plus [Insert brand name for EPA Reg. No. 71995-29] then fill with water very slowly to avoid foaming.
- 6L Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 16 fl oz of Roundup Concentrate Plus [Insert brand name for EPA Reg. No. 71995-29] then fill with water very slowly to avoid foaming.
- 2 Gallon Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 20 fl oz of Roundup Concentrate Plus [Insert brand name for EPA Reg. No. 71995-29] then fill with water very slowly to avoid foaming.

PRECAUTIONARY STATEMENTS [optional illustration]

[re-entry icon] People and pets may enter treated area after spray has dried.

HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION:

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

	FIRST AID
If in eyes	 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eyes. Call a poison control center (insert contact telephone #) or doctor for treatment advice.
	Emergency Medical Information
controlYou ma	e product container or label with you when calling a poison center or doctor, or going for treatment. y contact (insert contact telephone #) for emergency medical nt information.
• This pro	duct is identified as [Insert brand name], Reg. No. 71995-29

ENVIRONMENTAL HAZARDS: This product is toxic to aquatic invertebrates. Do not apply directly to any body of water. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.

This product is protected by U.S. Patents No. 5,683,958 and No. 5,703,015 and No. 6,063,733 and No. 6,121,199 and No. 6,121,200. Other patents pending. No license granted under any non-U.S. patent(s).

This is an end-use product. Monsanto does not intend and has not registered if for reformulation or repackaging.

[phone icon] Questions, Comments	or Medical Information	
call insert contact #	www.roundup.com	

Roundup is a trademark of Monsanto Technology LLC

©[__] MONSANTO COMPANY

Manufactured for
Monsanto Company, Lawn & Garden Products
P.O. Box 418
Marysville, OH 43041
Form [____]
EPA Reg. No. 71995-29
EPA Est. 239-IA-3¹, 58996-MO-1^A
Superscript is first letter of lot number
Made in USA

APPENDIX 1 - Consolidated List of Label Claims

[Ordered alphabetically]

- ASPCA approved [ASPCA seal of approval to be submitted]
- · Absorbed into both broadleaf and grassy weeds
- Absorbs on contact, starts working immediately
- Also use for large jobs such as lawn renovation and vegetable and flower garden preparation
- · Approved for most (many) lawn and garden uses
- Before [weed graphics] / After [weed graphics]
- Begins absorbing on contact
- Can be used for habitat restoration, controlling exotic vegetation, and for site preparation of wildlife food plots
- Can reseed or sod lawns 7 days after treatment
- · Concentrated for extra value
- · Concentrated formula
- (Contains) FastAct™ (technology)
- Dead Weeds Guaranteed (or Your Money Back)
- · Dead (weeds) in a day
- · Deactivates in soil
- Does not have soil activity
- Economical
- · Economical concentrate formula
- Easy to apply with an Ortho Dial 'n Spray®, hose-end, tank or (hand held) trigger sprayer
- Even if it rains Roundup [or insert brand name] won't lose its effectiveness
- Exclusive Roundup [or insert brand name] formula
- Experience the Roundup Advantage (peel back this panel for detail) (see details inside / underneath this booklet) (see details on back panel)
- FastAct™ (Technology)
- · Fast-acting formula
- Fast-acting formula works twice as fast (50% faster)
- · Fast-acting formula absorbs to root more quickly
- Fastest Roundup Concentrate Available
- For control that doesn't (won't) wash away
- For general weed control kills weeds and grasses in 1 to 2 weeks roots and all
- · For weeds that are dead in a (one) day
- · Guaranteed same effective results even if it rains within hours
- Guaranteed effective: Kills over 200 types of weeds and grasses, roots and all, with just one application
- Guaranteed (we guarantee it)
- Ideal for killing unwanted weeds and grasses throughout your yard. Use along fences;

71995-29

EPA Approved 12 July 2004 Notification dated 14 July 2004 Amendment Submitted 18 August 2004 11

in cracks of walks, drives and patios; and around flower beds, trees and shrubs

- Improved extra strength formula
- · Improved formula, completely kills even the toughest weeds and grasses
- Keeps driveways, walkways, landscaping beds, and flower gardens weed-free all season long
- Kills almost all (annual and perennial) weeds, grasses and other unwanted plants
- · Kills existing weeds only, no residual activity in soil
- · Kills more weeds in more places.
- · Kills over 100 weeds
- Kills (to) the root
- · Kills (the toughest weeds and grasses) the root so weeds (they) don't come back
- Kills the root so weeds don't come back
- · Kills the roots of (both) broadleaf and grassy weeds
- · Kills the weed you see and the root you don't
- · Kills unwanted weeds and grasses, roots and all
- Kills weeds in flowerbeds, around trees, shrubs and fences, and on patios, paths, sidewalks, sidewalk cracks, walkways, driveways, and other areas in your yard
- · Kills weeds, roots and all
- · Lawns and gardens can be reseeded or planted soon after treatment
- · Make only what you need
- · Multipurpose grass and broadleaf weed control
- · NEW!
- Next day (this weekend) results: Begins killing on contact, visible results in 24 hours
- No odor
- No root. No weed. No problem.
- NOW!
- Now a shorter wait for replanting!
- Once it enters the plant, it won't wash off
- One application kills over 200 types of weeds and grasses, roots and all (maximum effectiveness)
- Only Roundup's effectiveness (exclusive formula) won't be washed away by rain or watering 2 hours (30, 45, 60, 90 minutes) after treatment
- Only Roundup's effectiveness (formula) won't be washed away by rain or watering 2 hours (1 hour)(30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes) after treatment
- Proven (trusted) performance: Only Roundup [or insert brand name] works the first time, every time – and has for 25 years
- Provides maximum control: Kills weeds to the root so they don't ever come back
- Quick kill formula (the toughest)
- Quick-action formula lets you see results 50% faster (two times)
- Ornamental gardens can be reseeded or planted 1 day after treatment
- RainFast in hours (30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60

71995-29

minutes; less than 30 minutes)- enters the plant on contact

- RAIN-PROOF™ (Mistake Proof)
- RAIN-PROOF™ in two hours (30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes) (for control that won't wash away)
- Roundup [or insert brand name] can be used (almost) anywhere weeds and grasses grow, including patios, walkways, and driveways; along fences; in landscaping beds; or around flowers, shrubs and trees
- (Roundup) [or insert brand name] Kills the weed you see and the root others leave behind
- Roundup's exclusive (patented) formula (technology) kills to the root so weeds don't come back
- Roundup [or insert brand name] kills weeds and grasses in Patios Driveways Sidewalks – Ornamental Gardens and other non-lawn areas
- · Satisfaction guaranteed or we will gladly refund purchase price
- · Satisfaction guaranteed or your money back with proof of purchase
- · (See) results in hours
- · (See) results in 24 hours
- · Speeds absorption to the root for complete kill
- Spray weeds (Use) in flowerbeds, around trees, shrubs and around fences, and on patios, paths, sidewalks, sidewalk cracks, walkways, driveways, and other areas in your yard
- · Starts to kill in hours
- · Starts working immediately (in hours)
- Stronger
- · Transorb technology speeds Roundup to the root to kill even tough weeds
- · Twice as fast
- (Use) For Brush Control
- (Use) For General Weed Control: Use along fences, paths, patios, sidewalks and driveways, around trees, shrubs, ornamental plantings, flowerbeds, and buildings, and in brick and gravel walkways.
- Use for large jobs like garden plot preparation and lawn replacement (renovation)
- (Use) For Lawn Renovation
- Use to trim and edge landscape areas.
- (Use) For Spot Spraying: Use in and around flowerbeds, ornamental trees, shrubs, fences, driveways and walkways
- (Use) For Stumps
- (Use in) Apply with a Big Shot™ Multi-Purpose Sprayer or other tank sprayer, or a (hand held) trigger sprayer
- Use to refill Roundup Ready-To-Use containers
- Use to prepare sites: for large plantings, for planting flowerbeds, fruit trees, ornamentals, vegetables and gardens, and for renovating lawns
- · Visible effects are gradual wilting and yellowing advancing to complete browning and

root destruction.

- Water based formula
- Won't wash off (away)
- · Works first time, every time
- Works in hours
- Works overnight
- · Works only when absorbed by the foliage of weeds

[Promotional options]

- · Save up to \$[x] on (your) next purchase
- [X]% Free (More)
- · Free weed guide inside
- Free [] with this purchase of Roundup concentrate quart
- · FREE REFILL
- FREE SAMPLE
- SAMPLE NOT FOR SALE
- Value size

APPENDIX 2 - Packaging Related Claims

```
NET xx fl oz (qt or gal) (xx mL or L)
6 fl oz (177 mL)
6.5 fl oz (192 mL)
8 fl oz (237 mL)
13 oz (384 mL)
16 fl oz (1 pt) (473 mL)
32 fl oz (1 qt) 946 mL)
36.8 oz (15% more than 1 quart size)
40 fl oz (1.18 L)
53.7 fl oz (0.42 gal) (1.5 L)
64 fl oz (1/2 gal) (1.89 L)
128 fl oz (1 gal) (3.79 L)
```

[corner flap]

OPEN

Resealable Label for Directions & Precautions

PULL HERE TO OPEN LABEL

PEEL HERE

PEEL OPEN FOR USE DIRECTIONS AND FURTHER INFORMATION PRESS TO RESEAL

[Net contents] Makes up to 'X' gallons Makes between 'X' – 'Y' gallons

Mix with water to make 'X' gallons of spray solution

Covers up to 'Z' sq ft

Mix with water to cover up to 'Z' sq ft

[$X = net contents \div 3$] [$Y = net contents \div 6$] [Z = X * 300]

[Pint]

Makes up to 5 gallons

Makes between 21/2 - 5 gallons

Mix with water to make 5 gallons of spray solution

Covers up to 1,500 sq ft

Mix with water to cover up to 1,500 sq ft

[Quart]

Makes up to 10 gallons

Makes between 5 - 10 gallons

71995-29

EPA Approved 12 July 2004 Notification dated 14 July 2004 Amendment Submitted 18 August 2004 15

Mix with water to make 10 gallons of spray solution Covers up to 3,000 sq ft Mix with water to cover up to 3,000 sq ft

[0.42 Gallon] Makes up to 18 gallons

Makes between 9 – 18 gallons

Mix with water to make 18 gallons of spray solution

Covers up to 5,400 sq ft

Mix with water to cover up to 5,400 sq ft

[Half Gallon] Makes up to 21 gallons
Makes between 10 – 21 gallons
Mix with water to make 21 gallons of spray solution
Covers up to 6,300 sq ft
Mix with water to cover up to 6,300 sq ft

[Gallon] Makes up to 42 gallons
Makes between 21 – 42 gallons
Mix with water to make 42 gallons of spray solution
Covers up to 12,600 sq ft
Mix with water to cover up to 12,600 sq ft

New! Larger size, covers up to ['Z'] sq ft

With (the convenient) measuring cup, mixing [Insert brand name] (controlling weeds around your home) has never been easier

With (the convenient) measuring cup, controlling weeds all around your home has never been this fast and easy

Description of changes for 071995-00029.20040818.pdf

This label amendment incorporates the following changes:

- Revised Refill section
- · Added optional text, When to Apply Section
- · Added "with water" and "eyes" to First Aid
- · Added container size to Appendix 2

5. METHOD OF SUPPRAT	1. PRODUCT	MARAGER		L	i
O+. O+ O+	2 3 1		he.	E 100	000
9/14/04 AWP	Revise N	North Label 300	*336	12. 907	80 me 84
2 151 A E VIEW TYPE	AEVIEWER COSE (Income)	SIGNATURE OF REVIEWER	COM. 1607 COOE	947 •	4v-0w (2w
A sevience or Team	i	1:11 1 -		ı	
8 27012427 821120	11			1	1
C	1.1	*		1	
D ************************************				1	
E ************************************	11			1	111
F	111	νκω	NAC	019	119/0
G	11			1	11/0
H	11				1.
	11	2 2 2	•	J	
J 255 00000 10188716188	11			1	
X 255.00	11	**			
L 20014467	11		3	1	
M	1.1	• .		1	
N EFFICACT DIMPRETANT	11	3 3 3		1	
Q ************************************	111	• • • • • • • •		1	1
P EEE SRAMEN ENVIORS .	11		2.	1	1
d	111		1	-1	I.
R EEE ORANGO GAVINGO	11			1	1
3	1.1			1	1
T	111		1	1	1

EPA Form 6578-1 5 (3-78)



18 August, 2004

Hand Delivered

MONSANTO COMPANY
1300 I (EYE) STREET, NW
SUITE 450 EAST
WASHINGTON, D.C. 20005
PHONE (202) 383-2866
FAX (202) 789-1748
http://www.monsanto.com

Document Processing Center (AMEND)
Office of Pesticide Programs
U.S. Environmental Protection Agency
Room 266A, Crystal Mall 2,
1801 South Bell Street
Arlington, VA 22202-4501

Attention:

Mr. Jim Tompkins (7505C)

Product Manager (Team 25)

Subject:

Submission of Revised Master Label for EPA Reg. No. 71995-29

•

Dear Mr. Tompkins,

Monsanto is herein submitting a revised Master Label for *Roundup Weed & Grass Killer Concentrate Plus* (EPA Reg. No. 71995-29). The revised label is based on the recent label notification, dated July 14, 2004. Changes to the label include:

- Revised Refill section
- Added optional text, When to Apply Section
- Added "with water" and "eyes" to First Aid
- Added container size to Appendix 2

This submission is classified as part of the Agency's Fast-Track Program therefore no fee is due.

The following documents are included with this application for amendment:

- Application for Pesticide (form 8570-1)
- Five copies of the revised Master Label (unmarked)
- One copy of the revised Master Label (marked)
- CD-Rom containing this cover letter, required forms and the electronic label (filename: 071995-00029.20040818.pdf)
- Signed Certification with Respect to Label Integrity

Should you require any additional information or have any questions, please contact Dr. Russell Schneider at our Washington office (202)383-2866 or me directly at (314) 694-8785 or by email at rhonda.m.mannion@monsanto.com.

Sincerely,

Rhouda M. Mannion /ts

Registration Manager

cc: V. Walters / EPA
R. Schneider / DC Office
J. Lambert/ A2NC
File copy

Master Label Submission 000241-00425.20040408 8 Apr-2004 Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060

-		
	_	PΔ
	_	

United States

	Registration
X	Amendmen

OPP Identifier

 €EPA	Environmenta Washin	I Prote		су		Amendment	307417
					c	ther	307417
	Application	on for P	esticide -				
Company/Product Number I Products; 71995-29	Monsanto Company, Lawn & Gard	len	2. EPA Produ Mr. Jim	ct Manager Tompkins		3. Propo	sed Classification
	nsanto Company, Lawn & Garden l ass Killer Concentrate Plus	Products;	PM# 25			□ No	one Restricted
5. Name and Address of Applic Monsanto Company, I 1300 I (Eye) St., N.W. Washington, DC 2000 Check if this is a new addr	Lawn & Garden Products ., Suite 450 East		product is sim EPA Reg. No	ilar or identical o.	in composit	ion and labeling t	
		Sect	tion – II				
Notification – E	in response to Agency letter dated explain below. page(s) if necessary. (For Section		tion II.)	Final printed Agency lette "Me Too" Ap Other – Exp	er dated oplication.	esponse to	
Material This Product Will	Be Packaged In:	Sect	ion – III				
Child-Resistant Packaging Yes* No Certification must be submitted	1474 SAME SAME SAME SAME SAME SAME SAME SAME	. per ntainer	Water Soluble F Yes No If "Yes" Package wgt.	Packaging No. per Container	2. Ty	pe of Container Metal Plastic Glass Paper Other	
Location of Net Contents Info Label	0/0000000000000000000000000000000000000	Size(s) Reta	I iil Container		5. Location On La	of Label Direction	
6. Manner in Which Label is Affi	ixed to Product	Lithograp Paper glu Stenciled	ued	Other			
			ion – IV				
1. Contact Point (Complete item Name Dr. Russell Schneide	ns directly below for identification o	Title	to be contacted, ector, Regula	12.00		Telephone No.	(Include Area Code) 83-2866
	Cert s I have made on this form and all owingly false or misleading statem						6. Date Application Received (Stamped)
2. Signature Rhould M. M. 4. Typed Name	Mannion/ts	3. Title	Registration	Manager			
Rhonda. M. Mannion	Tel. (314) 694-8785		18 August 2	004			

Certification with Respect to Label Integrity

Version: 9/11/02

I certify that the information (including, but not limited to, text, tables, and graphics) contained in the electronic file identified below by file name and submitted with this certification is the same information as that on the paper copies of these documents included with this submission.

PROPOSED LABEL						
EPA Registration #	Date Submitted to EPA	Electronic file name				
071995-00029	08/18/2004	071995-00029.20040818.pdf				

I certify that the statements that I have made on this form are true, accurate, and complete. I acknowledge that any knowingly false or misleading statements may be punishable by fine or imprisonment or both under applicable law.

Rhouda 4. Mannion to Signature	18 August 2004 Date	
Rhonda M. Mannion		
Name (typed)		
Registration Manager		
Title		

Please read inst	ructions on reverse before completi	ng form.		Form Approve	ed. OMB No	2070-0060	
SEPA	Unit Environmental Washing		ction Agen	су		Registration Amendment Other	OPP Identifier Number 294199
	Applicatio	n for I	Pesticide -	Section			
1. Company/Product Number 71995-29			2. EPA Produ			3. Propos	sed Classification
Company/Product (Name) Roundup Weed & Gra	ss Killer Concentrate Plus		PM# 25			□ No	ne Restricted
5. Name and Address of Applic Monsanto Company, La 1300 I (Eye) St., N.W., S Washington, DC 20005	wn & Garden Products Suite 450 East		product is simi EPA Reg. No	ilar or identica	al in compos	ition and labeling to	
		Sec	tion – II				
Amendment – E Resubmission i Notification – E	n response to Agency letter dated			Agency "Me Too"	od labels in respectively. Application. Plain Below.	TION	
This notification is consistent will labeling or the confidential state to EPA. I further understand the	the the provisions of PR Notice 98-10 ment of formula of this product. I use if this notification is not consistent enforcement action and penalties under the provision of the provision is not consistent enforcement action and penalties under the provision of t	0 and EP understand it with the	d that it is a violati terms of PR Notice	on of 18 U.S. ce 98-10 and	C Sec. 1001	to willfully make a	ny false statement
		Sec	tion – III				
1. Material This Product Will	Be Packaged In:						
Child-Resistant Packaging Yes* No	Unit Packaging Yes No If "Yes" No. p	ner	Water Soluble F Yes No	Packaging No. per	2. 1	Metal Plastic Glass	
ertification must submitted		tainer	Package wgt.	Container		Paper Other	
3. Location of Net Contents Info Label Containe		ze(s) Reta	ail Container		5. Locatio	on of Label Direction	
6. Manner in Which Label is Affi	xed to Product	Lithogra Paper gl Stencile	lued	Othe	er		
			tion – IV				
1. Contact Point (Complete item Name Dr. Russell Schneider	s directly below for identification of	Title	I to be contacted,	s page to			(Include Area Code) 33-2866
	Certification of the community of the co						6. Date Application Received (Stamped)
2. Signature Plumala M. M.	enner	3. Title	Registration	Manager			
4. Typed Name Rhonda. M. Mannion	Tel. (314) 694-8785	5. Date	e 14 July 2004	1	2		• .

Certification with Respect to Label Integrity Version: 9/11/02

I certify that the information (including, but not limited to, text, tables, and graphics) contained in the electronic file identified below by file name and submitted with this certification is the same information as that on the paper copies of these documents included with this submission.

PROPOSED LABEL						
EPA Registration #	Date Submitted to EPA	Electronic file name				
71995-29	07/14/2004	071995-00029.20040714.pdf				

I certify that the statements that I have made on this form are true, accurate, and complete. I acknowledge that any knowingly false or misleading statements may be punishable by fine or imprisonment or both under applicable law.

Rhonder M. Mlennion	14
Signature	Da

July 2004

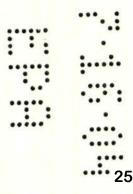
te

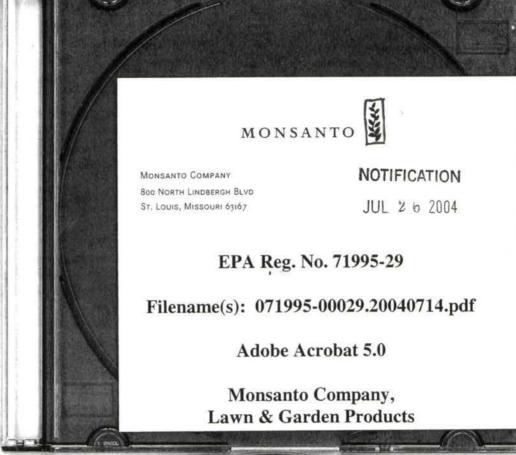
Rhonda M. Mannion

Name (typed)

Registration Manager

Title



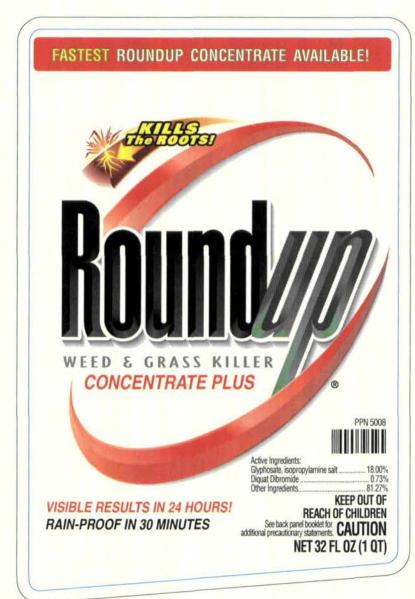


Batch 45 Box 48

Jacket # 070602 (071995-00029)

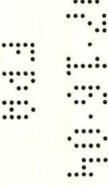
Sent it back to OPP





041502

File 40939/front label Created: 08-06-03 cn Folder: 40939Monsanto_21208B3-14 alt: 8-23-03 mm/ 6/30/04 lmk color: black, pms 362, pms 430, pms 485, pms 2945, pan yellow bar code: itf, 25%, -58



Page 3

IMPORTANT: Some trees may share the same root system. Adjacent trees having a similar age, height and spacing may signal shared roots system. Injury may occur to non-treated trees when one or more trees sharing common roots are treated.

For Lawn Replacement

Use Roundup to kill lawn and weeds before planting a new lawn.

- Skip one mowing before spraying.
- Use 6 fl oz (12 Tbs) per gallon of water for each 300 sq ft. Apply evenly over treatment area.
- If soil is dry, water before application and 2 to 3 days after application.
- · If green patches remain after 7 days, reapply.
- Wait 7 days after last application to rake, till or replant with seed or sod.

For Garden Plot Preparation

Use Roundup to kill weeds and grasses before planting flowers, fruits, vegetables, trees or shrubs.

- If soil is dry, water before application and 2 to 3 days after application.
- Use 6 fl oz (12 Tbs) per gallon of water for each 300 sq ft . Apply evenly over treatment area.
- Wait 1 to 3 days after last application before planting garden, see
 When To Replant section for details.

When To Replant

- All ornamental flowers, trees and shrubs may be planted 1 day after application.
- Lawn grasses, herbs, vegetables (all), and fruits may be planted 3 days after application.

How It Works

Roundup Concentrate Plus enters plants through foliage and moves systemically to the roots, killing weeds by stopping the production of a substance found in plants. Any product not absorbed by plants will be deactivated after it hits the soil. Weeds usually yellow and wilt within hours with complete kill in 1 to 2 weeks.

Satisfaction Guaranteed or your money back with proof of purchase.

NO ROOT. NO WEED. NO PROBLEM.®

folder: 9782_Monsanto_RU Conc+_32oz

file: 9782_book_(FC & 3)

created: 7-06-04 jw

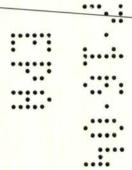
colors: black, pms 3425 green bar code: ITF var. 25%, -39 mics / UPCA, 80%, -39 mics

Front



For easy to kill weeds such as seedlings add 3 fl oz (6 Tbs) to 1 gallon of water.

Manufactured for Monsanto Company, Lawn & Garden Products, P.O. Box 418 Marysville, OH 43041 EPA Reg. No. 71995-29 EPA Est. 239-IA-3¹, 58996-MO-1^A Superscript is first letter of lot number PPN 5003 Made in USA



04140

Page 1

Page 2

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

MIXING INSTRUCTIONS

Tank Sprayer (plastic, aluminum, fiberglass, plastic-lined steel or stainless steel). DO NOT MIX, STORE, OR APPLY IN GALVANIZED OR UNLINED STEEL SPRAYER.

- Add 6 fl oz (12 Tbs) to 1 gallon of water.
- Spot treat or spray evenly over 300 sq ft.

Hose-End Sprayer

For large areas consider using the Ortho Dial 'n Spray®.

- Set dial to 6 oz.
- To sprayer jar add 6 fl oz (12 Tbs) for each 300 sq ft. DO NOT add water.
- Spray evenly over measured area.
- · After spraying, unused product can be poured back into its original container.

1 Tablespoon (Tbs) = 3 teaspoons (tsp)

1 fl oz = 2 Tbs

For easy to kill weeds such as seedlings add 3 fl oz (6 Tbs) to 1 gallon of water.

Do not apply with a galvanized or unlined steel (except stainless steel) sprayer or through any irrigation system.

To clean sprayer after use, rinse sprayer and all sprayer parts with water 3 times. Spray rinse water on bare soil or gravel. After cleaning, sprayer may be used for other products.

User Safety Recommendations

- Clothing and protective equipment exposed to this product should be washed in detergent and hot water. Such items should be kept and washed separate from other laundry.
- Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Users should remove clothing immediately if product gets inside; then wash thoroughly and put on clean clothing.

How To Apply

- Spray the weeds or grasses you want to kill until thoroughly wet.
- When spot treating weeds around desirable plants, shield plants from drift with a piece of cardboard or plastic. If desirable plants are accidentally sprayed, rinse off immediately with water.

Important: Do not spray plants or grasses you like - they may die too. Not recommended for spot weed control in lawns since Roundup kills lawn grasses.

Application Restrictions: Do not apply this product in a way that will contact any person or pet, either directly or through drift. Only the person applying this product may be in the area during application.

When To Apply

- Apply when weeds are actively growing.
- For best results, apply during warm, sunny weather (above 60°F) to accelerate systemic movement from foliage to roots.
- Apply when air is calm to prevent drift to desirable plants.
- RAIN-PROOF: Rain or watering 30 minutes after application will not wash away effectiveness.

Additional Tips

To Kill Vines

- If vines are growing up poles, fences, or tree trunks with mature bark, cut vines to a height of 3 to 4 feet and spray vines thoroughly.
- If vines are climbing shrubs or tree trunks with green bark, cut vines at base and treat as directed for stumps or spray regrowth. If spraying regrowth, shield shrubs and green bark from spray drift with a piece of cardboard or plastic.

To Kill Stumps

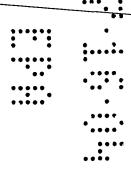
- · Cut living stump close to ground.
- Drive 4 to 5 holes into freshly cut stump.
- · Immediately pour undiluted product into holes.

1

file:9782_book_(1 & 2) folder: 9782_Monsanto_RU Conc+_32oz colors: black (white copy in black box)

created: 7-06-04 jw

alt:



STORAGE AND DISPOSAL

STUTAGE AND DISPUSAL
PESTICIDE STORAGE: Store product in original container in a safe place away from direct sunlight. DISPOSAL: If Empty: Do not reuse this container. Place in trash or offer for recycling if available. If Partly Filled: Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

People and pets may enter treated areas after spray has dried. FIRST AID

lf in

- Hold eye open and rinse slowly and gently for 15-20 minutes.
 Remove contact lenses, if present, after first 5 minutes, then continue
- Call a poison control center, 1-800-246-7219, or doctor for treatment advice.

Emergency Medical Information

Have the product container or label with you when calling a poison control center
or doctor, or going for treatment.
 You may contact 1-800-246-7219 for emergency
medical treatment information.
 This product is identified as Roundup Weed &
Grass Killer Concentrate Plus, EPA Reg. No. 71995-29.

ENVIRONMENTAL HAZARDS: This product is toxic to aquatic invertebrates. Do not apply directly to any body of water. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.



Questions, Comments or Medical Information: Call 1-800-246-7219 www.roundup.com

This product is protected by U.S. Patents No. 5,683,958; 5,703,015; 6,063,733; 6,121,199; and No. 6,121,200. Other patents pending. No license granted under any non-U.S. patent(s).

This is an end-use product. Monsanto does not intend and has not registered it for reformulation or repackaging.
Roundup is a trademark of Monsanto Technology LLC.
© 2004 MONSANTO COMPANY

Manufactured for Monsanto Company, Lawn & Garden Products

P.O. Box 418, Marysville, OH 43041

EPA Reg. No. 71995-29

PPN 5003

EPA Est. 239-1A-31, 58996-MO-1A Superscript is first letter of lot number.

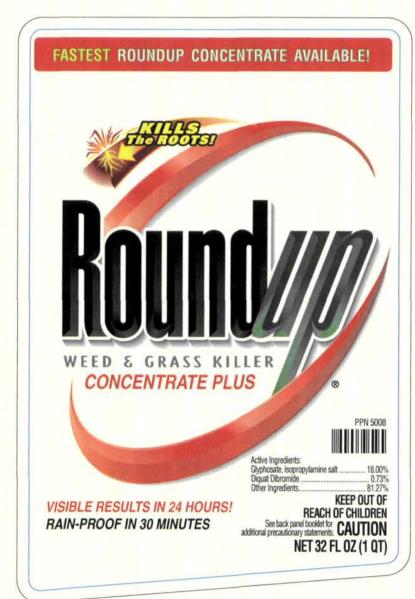
Made in USA

File: 42482_base_art Folder: 42482_Monsanto_RU Conc+_32oz

color: Black

created: 9-16-02 es

PRESS TO RESEAL





File 40939/front label Created: 08-06-03 cn Folder: 40939Monsanto_21208B3-14 alt: 8-23-03 mm/ 6/30/04 lmk color: black, pms 362, pms 430, pms 485, pms 2945, pan yellow bar code: itf, 25%, -58

NOTIFICATION

JUL 2 6 2004

Page 3

IMPORTANT: Some trees may share the same root system. Adjacent trees having a similar age, height and spacing may signal shared roots system. Injury may occur to non-treated trees when one or more trees sharing common roots are treated.

For Lawn Replacement

Use Roundup to kill lawn and weeds before planting a new lawn.

- Skip one mowing before spraying.
- Use 6 fl oz (12 Tbs) per gallon of water for each 300 sq ft. Apply evenly over treatment area.
- If soil is dry, water before application and 2 to 3 days after application.
- If green patches remain after 7 days, reapply.
- Wait 7 days after last application to rake, till or replant with seed or sod.

For Garden Plot Preparation

Use Roundup to kill weeds and grasses before planting flowers, fruits, vegetables, trees or shrubs.

- If soil is dry, water before application and 2 to 3 days after application.
- Use 6 fl oz (12 Tbs) per gallon of water for each 300 sq ft. Apply evenly over treatment area.
- Wait 1 to 3 days after last application before planting garden, see When To Replant section for details.

When To Replant

- All ornamental flowers, trees and shrubs may be planted 1 day after
- Lawn grasses, herbs, vegetables (all), and fruits may be planted 3 days after application.

How It Works

Roundup Concentrate Plus enters plants through foliage and moves systemically to the roots, killing weeds by stopping the production of a substance found in plants. Any product not absorbed by plants will be deactivated after it hits the soil. Weeds usually yellow and wilt within hours with complete kill in 1 to 2 weeks.

Satisfaction Guaranteed or your money back with proof of purchase.

NO ROOT. NO WEED NO PROBLEM.® Front



PRODUCT FACTS

Makes up to 10 Gallons Treats up to 3,000 sq ft.

KILLS WEEDS



- √ On patios, walkways, driveways, gravel or mulch beds
- ✓ Around flowers, shrubs or trees
- √ Along fences
- √ In large areas For lawn replacement
 - For garden plot preparation*

√ Other areas of your yard

*IMPORTANT: While Roundup Concentrate Plus may be used to prepare a vegetable garden for planting, DO NOT USE for spot weed treatment after planting fruits or vegetables.

TO USE

For Best Results -

6 fl oz (12 Tbs) per gallon of water Apply on warm days in bright sunlight

 Questions, Comments or Medical Information: Call 1-800-246-7219 www.roundup.com

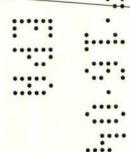


For easy to kill weeds such as seedlings add 3 fl oz (6 Tbs) to 1 gallon of water.

Manufactured for Monsanto Company, Lawn & Garden Products, P.O. Box 418 Marysville, OH 43041 EPA Reg. No. 71995-29

EPA Est. 239-IA-31, 58996-MO-1A Superscript is first letter of lot number PPN 5003 Made in USA

file: 9782_book_(FC & 3) created: 7-06-04 iw folder: 9782_Monsanto_RU Conc+_32oz colors: black, pms 3425 green bar code: ITF var. 25%, -39 mics / UPCA, 80%, -39 mics





Page 1

Page 2

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

MIXING INSTRUCTIONS

Tank Sprayer (plastic, aluminum, fiberglass, plastic-lined steel or stainless steel). DO NOT MIX, STORE, OR APPLY IN GALVANIZED OR UNLINED STEEL SPRAYER.

- · Add 6 fl oz (12 Tbs) to 1 gallon of water.
- Spot treat or spray evenly over 300 sq ft.

Hose-End Sprayer

For large areas consider using the Ortho Dial 'n Spray®.

- · Set dial to 6 oz.
- To sprayer jar add 6 fl oz (12 Tbs) for each 300 sq ft. DO NOT add water.
- · Spray evenly over measured area.
- · After spraying, unused product can be poured back into its original container.

1 Tablespoon (Tbs) = 3 teaspoons (tsp)

1 fl 07 = 2 Ths

For easy to kill weeds such as seedlings add 3 $\rm fl$ oz (6 Tbs) to 1 $\rm gallon$ of water.

Do not apply with a galvanized or unlined steel (except stainless steel) sprayer or through any irrigation system.

To clean sprayer after use, rinse sprayer and all sprayer parts with water 3 times. Spray rinse water on bare soil or gravel. After cleaning, sprayer may be used for other products.

User Safety Recommendations

- Clothing and protective equipment exposed to this product should be washed in detergent and hot water. Such items should be kept and washed separate from other laundry.
- Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Users should remove clothing immediately if product gets inside; then wash thoroughly and put on clean clothing.

How To Apply

- · Spray the weeds or grasses you want to kill until thoroughly wet.
- When spot treating weeds around desirable plants, shield plants from drift with a piece of cardboard or plastic. If desirable plants are accidentally sprayed, rinse off immediately with water.

Important: Do not spray plants or grasses you like - they may die too. Not recommended for spot weed control in lawns since Roundup kills lawn grasses.

Application Restrictions: Do not apply this product in a way that will contact any person or pet, either directly or through drift. Only the person applying this product may be in the area during application.

When To Apply

- · Apply when weeds are actively growing.
- For best results, apply during warm, sunny weather (above 60°F) to accelerate systemic movement from foliage to roots.
- · Apply when air is calm to prevent drift to desirable plants.
- RAIN-PROOF: Rain or watering 30 minutes after application will not wash away effectiveness.

Additional Tips

To Kill Vines

- If vines are growing up poles, fences, or tree trunks with mature bark, cut vines to a height of 3 to 4 feet and spray vines thoroughly.
- If vines are climbing shrubs or tree trunks with green bark, cut vines at base and treat as directed for stumps or spray regrowth. If spraying regrowth, shield shrubs and green bark from spray drift with a piece of cardboard or plastic.

To Kill Stumps

- · Cut living stump close to ground.
- Drive 4 to 5 holes into freshly cut stump.
- · Immediately pour undiluted product into holes.

1

2

file:9782_book_(1 & 2) folder: 9782_Monsanto_RU Conc+_32oz colors: black (white copy in black box) created: 7-06-04 jw

33



STORAGE AND DISPOSAL

PESTICIDE STORAGE: Store product in original container in a safe place away from direct sunlight. DISPOSAL: If Empty: Do not reuse this container. Place in trash or offer for recycling if available. If Partly Filled: Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.



People and pets may enter treated areas after spray has dried.

FIRST AID

- Hold eye open and rinse slowly and gently for 15-20 minutes.
- Remove contact lenses, if present, after first 5 minutes, then continue
- Call a poison control center, 1-800-246-7219, or doctor for treatment advice.

Emergency Medical Information

Have the product container or label with you when calling a poison control center
or doctor, or going for treatment.
 You may contact 1-800-246-7219 for emergency
medical treatment information.
 This product is identified as Roundup Weed &
Grass Killer Concentrate Plus, EPA Reg. No. 71995-29.

ENVIRONMENTAL HAZARDS: This product is toxic to aquatic invertebrates. Do not apply directly to any body of water. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.



Questions, Comments or Medical Information: Call 1-800-246-7219 www.roundup.com

This product is protected by U.S. Patents No. 5,683,958; 5,703,015; 6,063,733; 6,121,199; and No. 6,121,200. Other patents pending. No license granted under any non-U.S. patent(s).

This is an end-use product. Monsanto does not intend and has not registered it for reformulation or repackaging.
Roundup is a trademark of Monsanto Technology LLC.

© 2004 MONSANTO COMPANY

Manufactured for Monsanto Company, Lawn & Garden Products

P.O. Box 418, Marysville, OH 43041

EPA Est. 239-IA-3ⁱ, 58996-MO-1^A EPA Reg. No. 71995-29

PPN 5003

Superscript is first letter of lot number.

Made in USA

File: 42482 base art Folder: 42482_Monsanto_RU Conc+_32oz color: Black

created: 9-16-02 es

alt:

[Editorial Notes: Bracketed text [] is for internal use or serves as a 'place holder' for graphics. Parenthetical text () denotes optional wording.]

[Refer to APPENDIX 1 for consolidated list of label claims.]

[Refer to APPENDIX 2 for packaging related claims/instructions]

Roundup Weed & Grass Killer Concentrate Plus

Alternate Brand Name: MON 78307 Herbicide

KEEP OUT OF REACH OF CHILDREN CAUTION

See back panel booklet for additional precautionary statements. (Read precautions and directions on back label.)

NET [xxx]

EPA Approved 12 July 2004 Notification dated 14 July 2004 NOTIFICATION
JUL 2 6 2004

71995-29

Desident F	
Product F	acts
Makes up	o X gallons [see Appendix 2 for calculation]
Treats up t	o xx sq ft (approx. size of XX tennis courts)
[When cal	culating coverage, one gallon treats 300 sq ft and a tennis court is 2,808
sq ft.]	
KILLS	[Illustrate grassy, broadleaf and woody weeds]
WEEDS	ALL TYPES OF WEEDS & GRASSES
WHERE	On patios, walkways, driveways, gravel or mulch beds
TO USE	Around flowers, shrubs or trees
	Along fences
	In large areas - For lawn replacement
	 For garden plot preparation*
	Other areas in (of) your yard
	ANT: While Roundup Concentrate Plus may be used to prepare a
vegetable	garden for planting, DO NOT USE for spot weed treatment after planting
vegetable	
vegetable	garden for planting, DO NOT USE for spot weed treatment after planting or vegetables.
vegetable (any) fruits	garden for planting, DO NOT USE for spot weed treatment after planting or vegetables. For best results • 6 fl oz (12 Tbs) per gallon of water
vegetable (any) fruits	garden for planting, DO NOT USE for spot weed treatment after planting or vegetables. For best results
vegetable (any) fruits AMOUNT TO USE	garden for planting, DO NOT USE for spot weed treatment after planting or vegetables. For best results • 6 fl oz (12 Tbs) per gallon of water

[For products where an anti-theft device has been added] This bottle contains an anti-theft device, either inside or on the back of the bottle. It does not affect [Insert Brand Name] performance [notification dated 10-feb-04].

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

MIXING INSTRUCTIONS

[Optional tank sprayer illustration]

Tank Sprayer (plastic, aluminum, fiberglass, plastic-lined steel or stainless steel. (Do not (mix, store or) apply with (in) a galvanized or unlined steel sprayer.)

- (For tough established weeds / For best results,) add 6 fl oz (12 Tbs) to 1 gallon of water.
- [Optional text] (For easy to kill weeds such as (small) seedlings, add 3 fl oz (6 Tbs) to 1 gallon of water.
- Spot treat or spray evenly over 300 sq ft

[Optional DNS illustration]

Hose-End Sprayer

For large areas consider using the Ortho Dial 'n Spray®

- · Set dial to 6 oz.
- To sprayer jar add 6 fl oz (12 Tbs) for each 300 sq ft. DO NOT add water.
- Spray evenly over measured area.
- · After spraying, unused product can be poured back into its original container.

1 Tablespoon (Tbs) = 3 teaspoons (tsp)

1 fl oz = 2 Tbs

Do not (mix, store or) apply with (in) a galvanized or unlined steel (except stainless steel) sprayer, or through any irrigation system.

To clean sprayer after use, rinse sprayer and all sprayer parts with water 3 times. Spray rinse water on bare soil or gravel. After cleaning, sprayer may be used for other products.

USER SAFETY RECOMMENDATIONS [optional illustration]

- Clothing and protective equipment exposed to this product should be washed in detergent and hot water. Such items should be kept and washed separate from other laundry.
- Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Users should remove clothing immediately if product gets inside; then wash thoroughly and put on clean clothing.

HOW TO APPLY [optional illustration]

· Spray the weeds or grasses you want to kill until thoroughly wet.

EPA Approved 12 July 2004 Notification dated 14 July 2004

 When spot treating weeds around desirable plants, shield plants from drift with a sheet (piece) of cardboard or plastic. If desirable plants are accidentally sprayed, rinse off immediately with water (or cut off treated area).

IMPORTANT: Do not spray plants or grasses you like - they may die too. Not recommended for spot weed control in lawns since Roundup [or insert brand name] kills lawn grasses.

Application Restrictions: Do not apply this product in a way that will contact any person or pet, either directly or through drift. Only the person applying this product may be in the area during application.

WHEN TO APPLY [optional illustration]

- Use anytime weeds and grasses are actively growing. (Apply when weeds are actively growing.)
- For best results, apply during warm, sunny weather (above 60° F) to accelerate systemic movement from foliage to roots.
- Apply when air is calm to prevent drift to desirable plants.
- [Insert brand name] is Rainproof in 2 hours (30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes)
- [Alternate text] (RAIN-PROOF:) Rain or watering 2 hours (30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes) after application will not wash away effectiveness.
- [optional text]Apply when weeds are small and before seeds form. Established (Hard to kill) weeds may require a repeat application.

ADDITIONAL TIPS [Optional section] [optional illustration]

For Lawn Replacement

Use [Insert brand name] to kill a (an old) (an unwanted) lawn and (its) weeds before planting (a) new lawn (OR prior to laying a patio, sidewalk, or driveway).

[Alternate text] For lawn replacement use [insert brand name] to kill lawn and(&) weeds before planting new lawn.

- Skip one mowing before spraying.
- If soil is dry, water before application and 2 to 3 days after application.
- Wait 7 days after last application to rake, till or replant with seed or sod.
 [Alternate text]
 - Wait 7 days for weeds and lawn to die. Repeat if necessary.
 - Rake or till to prepare area for planting seed or sod.

(If green patches remain after 7 days, reapply.)

[Alternate section]

(Great) [Insert brand name] Project: Lawn Renovation

Use [Insert brand name] to kill sections of a weed-infested lawn before reseeding.

- Apply [Insert brand name] to lawn weeds and grasses <u>Wait 7 days</u> after application to rake, till or replant with seed or sod.
- Work (1" of) Scotts Lawn Soil with Starter Fertilizer into existing soil, mixing well.
- For thick, green grass guaranteed -- spread Scotts Pure Premium (or other Scotts grass seed) and water regularly (daily) to keep area moist (follow package instructions).
- For best results, add a thin layer of Scotts Miracle-Gro Sphagnum Peat Moss (or Scotts Lawn Soil) over the area to help seeded area stay moist throughout germination period.

For Flowerbed and Garden (Plot) Preparation

Use [Insert brand name] to kill weeds, grasses and brush before planting flowers, fruits, vegetables, trees or shrubs.

- If soil is dry, water before application and 2 to 3 days after application.
- Apply evenly over treatment area.
- (Wait 4 to 6 days for product to kill plants then cleanup plant refuse and till soil.)
- Wait (at least) 1 day before planting flowers, trees and shrubs. (Refer to the When To Replant section for planting intervals for fruits and vegetables)

[Alternate section]

- (Great) [Insert brand name] Project: Garden(Plot) Preparation
 Use [insert brand name] to kill unwanted weeds and grasses before planting flowers, fruits, vegetables, trees or shrubs.
 - Apply [insert brand name] to vegetation in planting bed
 - (Wait 4 to 6 days for product to kill plants then cleanup plant refuse and till soil.)
 - Wait (at least) 1 day after application before planting flowers, trees, and shrubs. (Refer to the When To Replant section for planting intervals for fruits and vegetables)
 - For best results, add 3" of Miracle-Gro Garden Soil to your garden. Rototill or spade to a depth of 6", mixing well.
 - Feed (new) plants every 2 weeks with Miracle-Gro Plant Food (follow package instructions).

To Kill Vines

- If vines are growing up poles, fences, or tree trunks with mature bark, cut vines to a height of 3 to 4 feet and spray vines thoroughly.
- If vines are climbing shrubs or tree trunks with green bark, cut vines at base and

treat as directed for stumps or spray regrowth. If spraying regrowth, shield shrubs and green bark from spray drift with a sheet (piece) of cardboard or plastic.

To Kill Stumps

- Cut living stump close to ground.
- Drive (drill) 4 to 5 holes into freshly cut stump.
- Immediately pour undiluted product into holes.

IMPORTANT: Some trees may share the same root system. Adjacent trees having a similar age, height and spacing may signal shared roots system. Injury may occur to non-treated trees when one or more trees sharing common roots are treated.

Kudzu

For best results, apply in mid to late summer when vines are mature and actively growing.

Wild Blackberry

Spray anytime plants are actively growing. Dead canes should be cut down and removed. Reapplication is often required to kill deep roots.

Poison Ivy & Poison Oak

Contact with these plants anytime of the year can cause an allergic reaction. Spray anytime plants are actively growing, but at least 4 weeks before the first killing frost in the fall. Reapply, if new growth appears. Handle dead plants with rubber gloves. Dispose of plants and rubber gloves in tightly sealed garbage bags.

WHEN TO REPLANT [optional illustration]

- All ornamental flowers, trees and shrubs may be planted 1 day after application.
- Lawn grasses, herbs, vegetables (all), and fruits may be planted 3 days after application.

HOW IT WORKS [optional illustration]

Roundup [or *insert brand name*] enters plants through foliage and moves systemically to the roots, killing weeds by stopping the production of a substance found in plants. Any product (Roundup) [*Insert brand name*] not absorbed by plants will be deactivated after it hits the soil. Weeds usually yellow and wilt within hours with complete kill in 1 to 2 weeks.

[Optional section]

KILLS ALL TYPES OF WEEDS & GRASSES [optional illustration]

Weeds (including): Artichoke thistle, beggarweed, black medic, blue mustard, blue toadflax, brassbuttons, broadleaf plantain, burclover, buttercup, Canada thistle, cattail, chickweed, cocklebur, common groundsel, common mullein, common plantain, common ragweed, creeping beggarweed, creeping-charlie, curly dock, dandelion, dog fennel, evening primrose, false dandelion, fiddleneck, field bindweed (wild morningglory), field pennycress, filaree, Florida pusley, garden spurge, henbit, horsenettle, horseradish, horseweed/ marestail, iceplant, knapweed, knotweed, lambsquarters, lantana, little bittercress, London rocket, mallow, mayweed, milkweed, mouseear chickweed, narrowleaf (buckhorn) plantain, nightshade (silverleaf), oldenlandia, oxalis, Pennsylvania smartweed, pennywort, poison hemlock, prickly lettuce, primrose, prostrate spurge, puncturevine, ragweed, red clover, redroot pigweed, shepherdspurse, smooth catsear, smooth pigweed, sowthistle, spotted spurge, tansy ragwort, tansymustard, teaweed, trumpetcreeper, tumble mustard, Virginia creeper, white clover, whitetop, wild barley, wild mustard, wild oats, wild sweet potato, yellow starthistle, and other broadleaf weeds

Grasses (including): Annual bluegrass, annual ryegrass, bahiagrass, barnyardgrass, bentgrass, Bermudagrass, bromegrass, Cogongrass, crabgrass, creeping bentgrass, dallisgrass, fall panicum, fescue, field sandbur, foxtail, goosegrass, guineagrass, Johnsongrass, Kentucky bluegrass, kikuyugrass, lovegrass, maidencane, nimblewill, nutsedge, orchardgrass, pampas grass, perennial ryegrass, purple nutsedge, quackgrass, sandspur, smooth bromegrass, sprangletop, St. Augustinegrass, tall fescue, Texas panicum, Timothy, torpedograss, vaseygrass, witchgrass, yellow nutgrass, zoysia and other grassy weeds

Brush (Tough Weeds), Unwanted Trees, Shrubs & Vines (including):

Alder, ash, (quacking) aspen, blackberry, bluegum eucalyptus, broom (French, Scotch), buckwheat, ceanothus, chamise, cherry, coyote brush, dewberry, elderberry, elm, eucalyptus, giant reed, hawthorn, hazel, honeysuckle, kudzu, locust, madrone, maple, oak, persimmon, poison oak, poison ivy, poplar, raspberry, sage, sagebrush, salmonberry, saltcedar, sassafras, sumac, sweetgum, tan oak, thimbleberry, tree tobacco, wild rose (multiflora) willow and other tough weeds

STORAGE AND DISPOSAL [trash can illustration]

PESTICIDE STORAGE: Store product in original container in a safe place away from direct sunlight.

DISPOSAL: If empty: Do not reuse this container. Place in trash or offer for recycling if

71995-29

EPA Approved 12 July 2004 Notification dated 14 July 2004

available. If Partly Filled: Call your local solid waste agency (or 1-800-CLEANUP) for disposal instructions. Never place unused product down any indoor or outdoor drain.

HOW TO REFILL ROUNDUP READY-TO-USE CONTAINERS [Optional section]

- 24 fl oz Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 2 fl oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.
- ½ Gallon Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 5 fl oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.
- Gallon Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 10 oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.
- 1.33 Gallon Roundup PNS (II):
 To empty container add 13 fl oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.
- 6L Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 16 fl oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.
- 2 Gallon Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 20 fl oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.

PRECAUTIONARY STATEMENTS [optional illustration]

[re-entry icon] People and pets may enter treated area after spray has dried.

HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION:

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

	FIRST AID
If in eyes	 Hold eye open and rinse slowly and gently for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. Call a poison control center (insert contact telephone #) or doctor for treatment advice.
	Emergency Medical Information

- Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
- You may contact (insert contact telephone #) for emergency medical treatment information.
- This product is identified as [Insert brand name], Reg. No. 71995-29

ENVIRONMENTAL HAZARDS: This product is toxic to aquatic invertebrates. Do not apply directly to any body of water. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.

This product is protected by U.S. Patents No. 5,683,958 and No. 5,703,015 and No. 6,063,733 and No. 6,121,199 and No. 6,121,200. Other patents pending. No license granted under any non-U.S. patent(s).

This is an end-use product. Monsanto does not intend and has not registered if for reformulation or repackaging.

[phone icon] Questions, Comments or Medical Information call insert contact # www.roundup.com

Roundup is a trademark of Monsanto Technology LLC

©[] MONSANTO COMPANY

Manufactured for Monsanto Company, Lawn & Garden Products P.O. Box 418 Marysville, OH 43041

71995-29

EPA Approved 12 July 2004 Notification dated 14 July 2004

Form [___]
EPA Reg. No. 71995-29
EPA Est. 239-IA-3^I, 58996-MO-1^A
Superscript is first letter of lot number
Made in USA

APPENDIX 1 – Consolidated List of Label Claims

[Ordered alphabetically]

- ASPCA approved [ASPCA seal of approval to be submitted]
- · Absorbed into both broadleaf and grassy weeds
- Absorbs on contact, starts working immediately
- Also use for large jobs such as lawn renovation and vegetable and flower garden preparation
- · Approved for most (many) lawn and garden uses
- Before [weed graphics] / After [weed graphics]
- · Begins absorbing on contact
- Can be used for habitat restoration, controlling exotic vegetation, and for site preparation of wildlife food plots
- Can reseed or sod lawns 7 days after treatment
- · Concentrated for extra value
- · Concentrated formula
- (Contains) FastAct™ (technology)
- Dead Weeds Guaranteed (or Your Money Back)
- · Dead (weeds) in a day
- Deactivates in soil
- · Does not have soil activity
- Economical
- Economical concentrate formula
- Easy to apply with an Ortho Dial 'n Spray®, hose-end, tank or (hand held) trigger sprayer
- Even if it rains Roundup [or insert brand name] won't lose its effectiveness
- Exclusive Roundup [or insert brand name] formula
- Experience the Roundup Advantage (peel back this panel for detail) (see details inside / underneath this booklet) (see details on back panel)
- FastAct™ (Technology)
- · Fast-acting formula
- Fast-acting formula works twice as fast (50% faster)
- Fast-acting formula absorbs to root more quickly
- Fastest Roundup Concentrate Available
- · For control that doesn't (won't) wash away
- For general weed control kills weeds and grasses in 1 to 2 weeks roots and all
- For weeds that are dead in a (one) day
- · Guaranteed same effective results even if it rains within hours
- Guaranteed effective: Kills over 200 types of weeds and grasses, roots and all, with just one application
- Guaranteed (we guarantee it)
- Ideal for killing unwanted weeds and grasses throughout your yard. Use along fences; in cracks of walks, drives and patios; and around flower beds, trees and shrubs

71995-29

EPA Approved 12 July 2004 Notification dated 14 July 2004

- · Improved extra strength formula
- Improved formula, completely kills even the toughest weeds and grasses
- Keeps driveways, walkways, landscaping beds, and flower gardens weed-free all season long
- · Kills almost all (annual and perennial) weeds, grasses and other unwanted plants
- Kills existing weeds only, no residual activity in soil
- · Kills more weeds in more places.
- · Kills over 100 weeds
- Kills (to) the root
- · Kills (the toughest weeds and grasses) the root so weeds (they) don't come back
- Kills the root so weeds don't come back
- Kills the roots of (both) broadleaf and grassy weeds
- Kills the weed you see and the root you don't
- Kills unwanted weeds and grasses, roots and all
- Kills weeds in flowerbeds, around trees, shrubs and fences, and on patios, paths, sidewalks, sidewalk cracks, walkways, driveways, and other areas in your yard
- Kills weeds, roots and all
- Lawns and gardens can be reseeded or planted soon after treatment
- · Make only what you need
- · Multipurpose grass and broadleaf weed control
- · NEW!
- Next day (this weekend) results: Begins killing on contact, visible results in 24 hours
- No odor
- · No root. No weed. No problem.
- NOW!

71995-29

- · Now a shorter wait for replanting!
- · Once it enters the plant, it won't wash off
- One application kills over 200 types of weeds and grasses, roots and all (maximum effectiveness)
- Only Roundup's effectiveness (exclusive formula) won't be washed away by rain or watering 2 hours (30, 45, 60, 90 minutes) after treatment
- Only Roundup's effectiveness (formula) won't be washed away by rain or watering 2 hours (1 hour)(30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes) after treatment
- Proven (trusted) performance: Only Roundup [or insert brand name] works the first time, every time – and has for 25 years
- Provides maximum control: Kills weeds to the root so they don't ever come back
- Quick kill formula (the toughest)
- Quick-action formula lets you see results 50% faster (two times)
- Ornamental gardens can be reseeded or planted 1 day after treatment
- RainFast in hours (30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes)- enters the plant on contact
- RAIN-PROOF™ (Mistake Proof)

- RAIN-PROOF™ in two hours (30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes) (for control that won't wash away)
- Roundup [or insert brand name] can be used (almost) anywhere weeds and grasses grow, including patios, walkways, and driveways; along fences; in landscaping beds; or around flowers, shrubs and trees
- (Roundup) [or insert brand name] Kills the weed you see and the root others leave behind
- Roundup's exclusive (patented) formula (technology) kills to the root so weeds don't come back
- Roundup [or insert brand name] kills weeds and grasses in Patios Driveways Sidewalks – Ornamental Gardens and other non-lawn areas
- · Satisfaction guaranteed or we will gladly refund purchase price
- Satisfaction guaranteed or your money back with proof of purchase
- (See) results in hours
- · (See) results in 24 hours
- Speeds absorption to the root for complete kill
- Spray weeds (Use) in flowerbeds, around trees, shrubs and around fences, and on patios, paths, sidewalks, sidewalk cracks, walkways, driveways, and other areas in your yard
- · Starts to kill in hours
- Starts working immediately (in hours)
- Stronger
- · Transorb technology speeds Roundup to the root to kill even tough weeds
- Twice as fast
- · (Use) For Brush Control
- (Use) For General Weed Control: Use along fences, paths, patios, sidewalks and driveways, around trees, shrubs, ornamental plantings, flowerbeds, and buildings, and in brick and gravel walkways.
- Use for large jobs like garden plot preparation and lawn replacement (renovation)
- (Use) For Lawn Renovation
- Use to trim and edge landscape areas.
- (Use) For Spot Spraying: Use in and around flowerbeds, ornamental trees, shrubs, fences, driveways and walkways
- (Use) For Stumps
- (Use in) Apply with a Big Shot™ Multi-Purpose Sprayer or other tank sprayer, or a (hand held) trigger sprayer
- Use to refill Roundup Ready-To-Use containers
- Use to prepare sites: for large plantings, for planting flowerbeds, fruit trees, ornamentals, vegetables and gardens, and for renovating lawns
- Visible effects are gradual wilting and yellowing advancing to complete browning and root destruction.
- Water based formula
- Won't wash off (away)

71995-29

EPA Approved 12 July 2004 Notification dated 14 July 2004

- · Works first time, every time
- Works in hours
- Works overnight
- · Works only when absorbed by the foliage of weeds

[Promotional options]

- Save up to \$[x] on (your) next purchase
- [X]% Free (More)
- · Free weed guide inside
- Free [] with this purchase of Roundup concentrate quart
- FREE REFILL
- FREE SAMPLE
- · SAMPLE NOT FOR SALE
- Value size

APPENDIX 2 - Packaging Related Claims

```
NET xx fl oz (qt or gal) (xx mL or L)
6 fl oz (177 mL)
6.5 fl oz (192 mL)
8 fl oz (237 mL)
13 oz (384 mL)
16 fl oz (1 pt) (473 mL)
32 fl oz (1 qt) 946 mL)
40 fl oz (1.18 L)
53.7 fl oz (0.42 gal) (1.5 L)
64 fl oz (1/2 gal) (1.89 L)
128 fl oz (1 gal) (3.79 L)
```

[corner flap]

OPEN

Resealable Label for Directions & Precautions

PULL HERE TO OPEN LABEL

PEEL HERE

PEEL OPEN FOR USE DIRECTIONS AND FURTHER INFORMATION

PRESS TO RESEAL

[Net contents] Makes up to 'X' gallons

Makes between 'X' - 'Y' gallons

Mix with water to make 'X' gallons of spray solution

Covers up to 'Z' sq ft

Mix with water to cover up to 'Z' sq ft

[$X = net contents \div 3$] [$Y = net contents \div 6$] [Z = X * 300]

[Pint]

Makes up to 5 gallons

Makes between 21/2 - 5 gallons

Mix with water to make 5 gallons of spray solution

Covers up to 1,500 sq ft

Mix with water to cover up to 1,500 sq ft

[Quart]

Makes up to 10 gallons

Makes between 5 - 10 gallons

Mix with water to make 10 gallons of spray solution

Covers up to 3,000 sq ft

71995-29

EPA Approved 12 July 2004 Notification dated 14 July 2004

Mix with water to cover up to 3,000 sq ft

[0.42 Gallon] Makes up to 18 gallons

Makes between 9 - 18 gallons

Mix with water to make 18 gallons of spray solution

Covers up to 5,400 sq ft

Mix with water to cover up to 5,400 sq ft

[Half Gallon] Makes up to 21 gallons

Makes between 10 - 21 gallons

Mix with water to make 21 gallons of spray solution

Covers up to 6,300 sq ft

Mix with water to cover up to 6,300 sq ft

[Gallon] Makes up to 42 gallons

Makes between 21 - 42 gallons

Mix with water to make 42 gallons of spray solution

Covers up to 12,600 sq ft

Mix with water to cover up to 12,600 sq ft

New! Larger size, covers up to ['Z'] sq ft

With (the convenient) measuring cup, mixing [Insert brand name] (controlling weeds around your home) has never been easier

With (the convenient) measuring cup, controlling weeds all around your home has never been this fast and easy



14 July 2004

Hand Delivered

Document Processing Center (NOTIF) Office of Pesticide Programs U.S. Environmental Protection Agency Room 266A, Crystal Mall 2, 1921 Jefferson Davis Highway Arlington, VA 22202-4501

Attention:

Mr. Jim Tompkins (7505C) Product Manager (Team 25)

Subject:

Roundup Weed & Grass Killer Concentrate Plus (Reg. No. 71995-29). Submission of Final Printed Label and Notification of Label Changes.

Dear Mr. Tompkins:

Monsanto is herein submitting a revised final printed label for Roundup Weed & Grass Killer Concentrate Plus (Reg. No. 71995-29) based upon the recently approved Master Label dated 12 July 2004. The final printed label is consistent with the approved Master Label with the following exception:

The claim "Fastest Roundup Concentrate Available" was added. This claim is supported by the existing Roundup Weed & Grass Killer Concentrate and Super Concentrate product labels (Reg. Nos. 71995-17, 71995-18, 71995-25 and 71995-26), which state "weeds yellow and wilt within 2 to 4 days" compared to Roundup Concentrate Plus which states "weeds usually vellow and wilt within hours" (quoted text can be found in the How It Works section of all labels). The current Master Label also contains several related speed claims.

The following documents are enclosed with this letter:

- Application for Pesticide (form 8570-1)
- · CD-Rom containing this cover letter, required forms, and a revised electronic Master Label (filename: 071995-00029.20040714.pdf)
- Certification with Respect to Label Integrity
- Five copies of the revised Master Label incorporating the new claim
- Three copies of the revised Final Printed Label

Should you have any questions, please contact Dr. Russ Schneider at our Washington office (202) 383-2866, or me directly at (314) 694-8785 or by email at rhonda.m.mannion@monsanto.com.

Sincerely, Clumble M. Mannin Rhonda M. Mannion Registration Manage

MONSANTO COMPANY 1300 I (EYE) STREET, NW

PHONE (202) 383-2866 FAX (202) 789-1748

http://www.monsanto.com

SUITE 450 EAST WASHINGTON, D.C. 20005

cc: V. Walters / EPA R. Schneider / DC Office J. Lambert / A2NC T. Schafer / A2ND File copy



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

JUL 1 2 2004

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Ms. Rhonda M. Mannion Monsanto Company, Lawn & Garden Products 1300 I Street, Suite 450 East Washington, DC 20005

Dear Ms. Mannion:

Subject: Roundup Weed & Grass Killer Concentrate Plus (Revise Master Label)

EPA Registration No. 71995-29 Application Dated May 5, 2004

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended is acceptable. Amended labeling will supercede all previously accepted ones. A stamped copy of labeling is enclosed for your records.

Sincerely,

James A. Tompkins for Product Manager 25
Herbicide Branch

Registration Division (7505C)

[Editorial Notes: Bracketed text [] is for internal use or serves as a 'place holder' for graphics. Parenthetical text () denotes optional wording.]

[Refer to APPENDIX 1 for consolidated list of label claims.]

[Refer to APPENDIX 2 for packaging related claims/instructions]

Roundup Weed & Grass Killer Concentrate Plus

Alternate Brand Name: MON 78307 Herbicide

ACCEPTED
JUL 1 2 2004

Under the Federal Insecticide, Fungicide, and Redenticide Act, as amended for the pesticide registered under EPA Reg. No. 71995-29

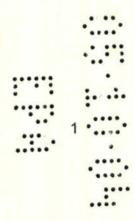
KEEP OUT OF REACH OF CHILDREN CAUTION

See back panel booklet for additional precautionary statements. (Read precautions and directions on back label.)

NET [xxx]

71995-29

EPA Approved 19 February 2004 Amendment dated 5 May-2004



Product Fa	acts
Makes up t	o X gallons [see Appendix 2 for calculation]
Treats up t	o xx sq ft (approx. size of XX tennis courts)
	culating coverage, one gallon treats 300 sq ft and a tennis court is 2,808
KILLS	[Illustrate grassy, broadleaf and woody weeds] ALL TYPES OF WEEDS & GRASSES
WEEDS	
WHERE	 On patios, walkways, driveways, gravel or mulch beds
TO USE	Around flowers, shrubs or trees
	Along fences
	In large areas - For lawn replacement
	 For garden plot preparation*
	Other areas in (of) your yard
vegetable g	ANT: While Roundup Concentrate Plus may be used to prepare a garden for planting, DO NOT USE for spot weed treatment after planting or vegetables.
AMOUNT	For best results
TO USE	6 fl oz (12 Tbs) per gallon of water
	Apply on warm days in bright sunlight
[phone icon	Questions, Comments or Medical Information
-	call (insert contact #) www.roundup.com

[For products where an anti-theft device has been added] This bottle contains an anti-theft device, either inside or on the back of the bottle. It does not affect [Insert Brand Name] performance [notification dated 10-feb-04].

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

MIXING INSTRUCTIONS

[Optional tank sprayer illustration]

Tank Sprayer (plastic, aluminum, fiberglass, plastic-lined steel or stainless steel. (Do not (mix, store or) apply with (in) a galvanized or unlined steel sprayer.)

- (For tough established weeds / For best results,) add 6 fl oz (12 Tbs) to 1 gallon of water.
- [Optional text] (For easy to kill weeds such as (small) seedlings, add 3 fl oz (6 Tbs) to 1 gallon of water.
- Spot treat or spray evenly over 300 sq ft

[Optional DNS illustration]

Hose-End Sprayer

For large areas consider using the Ortho Dial 'n Spray®

- Set dial to 6 oz.
- To sprayer jar add 6 fl oz (12 Tbs) for each 300 sq ft. DO NOT add water.
- Spray evenly over measured area.
- After spraying, unused product can be poured back into its original container.

1 Tablespoon (Tbs) = 3 teaspoons (tsp)

1 fl oz = 2 Tbs

Do not (mix, store or) apply with (in) a galvanized or unlined steel (except stainless steel) sprayer, or through any irrigation system.

To clean sprayer after use, rinse sprayer and all sprayer parts with water 3 times. Spray rinse water on bare soil or gravel. After cleaning, sprayer may be used for other products.

USER SAFETY RECOMMENDATIONS [optional illustration]

- Clothing and protective equipment exposed to this product should be washed in detergent and hot water. Such items should be kept and washed separate from other laundry.
- Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Users should remove clothing immediately if product gets inside; then wash thoroughly and put on clean clothing.

HOW TO APPLY [optional illustration]

- Spray the weeds or grasses you want to kill until thoroughly wet.
- When spot treating weeds around desirable plants, shield plants from drift with a sheet (piece) of cardboard or plastic. If desirable plants are accidentally sprayed,

71995-29

EPA Approved 19 February 2004 Amendment dated 5 May-2004

rinse off immediately with water (or cut off treated area).

IMPORTANT: Do not spray plants or grasses you like - they may die too. Not recommended for spot weed control in lawns since Roundup [or insert brand name] kills lawn grasses.

Application Restrictions: Do not apply this product in a way that will contact any person or pet, either directly or through drift. Only the person applying this product may be in the area during application.

WHEN TO APPLY [optional illustration]

- Use anytime weeds and grasses are actively growing. (Apply when weeds are actively growing.)
- For best results, apply during warm, sunny weather (above 60° F) to accelerate systemic movement from foliage to roots.
- Apply when air is calm to prevent drift to desirable plants.
- [Insert brand name] is Rainproof in 2 hours (30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes)
- [Alternate text] (RAIN-PROOF:) Rain or watering 2 hours (30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes) after application will not wash away effectiveness.
- [optional text]Apply when weeds are small and before seeds form. Established (Hard to kill) weeds may require a repeat application.

ADDITIONAL TIPS [Optional section] [optional illustration]

For Lawn Replacement

Use [Insert brand name] to kill a (an old) (an unwanted) lawn and (its) weeds before planting (a) new lawn (OR prior to laying a patio, sidewalk, or driveway).

[Alternate text] For lawn replacement use [insert brand name] to kill lawn and(&) weeds before planting new lawn.

- Skip one mowing before spraying.
- If soil is dry, water before application and 2 to 3 days after application.
- Wait 7 days after last application to rake, till or replant with seed or sod.
 [Alternate text]
 - Wait 7 days for weeds and lawn to die. Repeat if necessary.
 - Rake or till to prepare area for planting seed or sod.
- (If green patches remain after 7 days, reapply.)

[Alternate section]

(Great) [Insert brand name] Project: Lawn Renovation

Use [Insert brand name] to kill sections of a weed-infested lawn before reseeding.

- Apply [Insert brand name] to lawn weeds and grasses Wait 7 days after application to rake, till or replant with seed or sod.
- Work (1" of) Scotts Lawn Soil with Starter Fertilizer into existing soil, mixing well.
- For thick, green grass guaranteed -- spread Scotts Pure Premium (or other Scotts grass seed) and water regularly (daily) to keep area moist (follow package instructions).
- For best results, add a thin layer of Scotts Miracle-Gro Sphagnum Peat Moss (or Scotts Lawn Soil) over the area to help seeded area stay moist throughout germination period.

For Flowerbed and Garden (Plot) Preparation

Use [Insert brand name] to kill weeds, grasses and brush before planting flowers, fruits, vegetables, trees or shrubs.

- If soil is dry, water before application and 2 to 3 days after application.
- Apply evenly over treatment area.
- (Wait 4 to 6 days for product to kill plants then cleanup plant refuse and till soil.)
- Wait (at least) 1 day before planting flowers, trees and shrubs. (Refer to the When To Replant section for planting intervals for fruits and vegetables)

[Alternate section]

- (Great) [Insert brand name] Project: Garden(Plot) Preparation
 Use [insert brand name] to kill unwanted weeds and grasses before planting flowers,
 fruits, vegetables, trees or shrubs.
 - Apply [insert brand name] to vegetation in planting bed
 - (Wait 4 to 6 days for product to kill plants then cleanup plant refuse and till soil.)
 - Wait (at least) 1 day after application before planting flowers, trees, and shrubs.
 (Refer to the When To Replant section for planting intervals for fruits and vegetables)
 - For best results, add 3" of Miracle-Gro Garden Soil to your garden. Rototill or spade to a depth of 6", mixing well.
 - Feed (new) plants every 2 weeks with Miracle-Gro Plant Food (follow package instructions).

To Kill Vines

- If vines are growing up poles, fences, or tree trunks with mature bark, cut vines to a height of 3 to 4 feet and spray vines thoroughly.
- If vines are climbing shrubs or tree trunks with green bark, cut vines at base and treat as directed for stumps or spray regrowth. If spraying regrowth, shield shrubs and green bark from spray drift with a sheet (piece) of cardboard or plastic.

To Kill Stumps

- Cut living stump close to ground.
- Drive (drill) 4 to 5 holes into freshly cut stump.
- Immediately pour undiluted product into holes.

IMPORTANT: Some trees may share the same root system. Adjacent trees having a similar age, height and spacing may signal shared roots system. Injury may occur to non-treated trees when one or more trees sharing common roots are treated.

Kudzu

For best results, apply in mid to late summer when vines are mature and actively growing.

Wild Blackberry

Spray anytime plants are actively growing. Dead canes should be cut down and removed. Reapplication is often required to kill deep roots.

Poison Ivy & Poison Oak

Contact with these plants anytime of the year can cause an allergic reaction. Spray anytime plants are actively growing, but at least 4 weeks before the first killing frost in the fall. Reapply, if new growth appears. Handle dead plants with rubber gloves. Dispose of plants and rubber gloves in tightly sealed garbage bags.

WHEN TO REPLANT [optional illustration]

- All ornamental flowers, trees and shrubs may be planted 1 day after application.
- Lawn grasses, herbs, vegetables (all), and fruits may be planted 3 days after application.

HOW IT WORKS [optional illustration]

Roundup [or *insert brand name*] enters plants through foliage and moves systemically to the roots, killing weeds by stopping the production of a substance found in plants. Any product (Roundup) [*Insert brand name*] not absorbed by plants will be deactivated after it hits the soil. Weeds usually yellow and wilt within hours with complete kill in 1 to 2 weeks.

[Optional section]

KILLS ALL TYPES OF WEEDS & GRASSES [optional illustration]

Weeds (including): Artichoke thistle, beggarweed, black medic, blue mustard, blue toadflax, brassbuttons, broadleaf plantain, burclover, buttercup, Canada thistle, cattail, chickweed, cocklebur, common groundsel, common mullein, common plantain, common

71995-29

EPA Approved 19 February 2004 Amendment dated 5 May-2004

ragweed, creeping beggarweed, creeping-charlie, curly dock, dandelion, dog fennel, evening primrose, false dandelion, fiddleneck, field bindweed (wild morningglory), field pennycress, filaree, Florida pusley, garden spurge, henbit, horsenettle, horseradish, horseweed/ marestail, iceplant, knapweed, knotweed, lambsquarters, lantana, little bittercress, London rocket, mallow, mayweed, milkweed, mouseear chickweed, narrowleaf (buckhorn) plantain, nightshade (silverleaf), oldenlandia, oxalis, Pennsylvania smartweed, pennywort, poison hemlock, prickly lettuce, primrose, prostrate spurge, puncturevine, ragweed, red clover, redroot pigweed, shepherdspurse, smooth catsear, smooth pigweed, sowthistle, spotted spurge, tansy ragwort, tansymustard, teaweed, trumpetcreeper, tumble mustard, Virginia creeper, white clover, whitetop, wild barley, wild mustard, wild oats, wild sweet potato, yellow starthistle, and other broadleaf weeds

Grasses (including): Annual bluegrass, annual ryegrass, bahiagrass, barnyardgrass, bentgrass, Bermudagrass, bromegrass, Cogongrass, crabgrass, creeping bentgrass, dallisgrass, fall panicum, fescue, field sandbur, foxtail, goosegrass, guineagrass, Johnsongrass, Kentucky bluegrass, kikuyugrass, lovegrass, maidencane, nimblewill, nutsedge, orchardgrass, pampas grass, perennial ryegrass, purple nutsedge, quackgrass, sandspur, smooth bromegrass, sprangletop, St. Augustinegrass, tall fescue, Texas panicum, Timothy, torpedograss, vaseygrass, witchgrass, yellow nutgrass, zoysia and other grassy weeds

Brush (Tough Weeds), Unwanted Trees, Shrubs & Vines (including):

Alder, ash, (quacking) aspen, blackberry, bluegum eucalyptus, broom (French, Scotch), buckwheat, ceanothus, chamise, cherry, coyote brush, dewberry, elderberry, elm, eucalyptus, giant reed, hawthorn, hazel, honeysuckle, kudzu, locust, madrone, maple, oak, persimmon, poison oak, poison ivy, poplar, raspberry, sage, sagebrush, salmonberry, saltcedar, sassafras, sumac, sweetgum, tan oak, thimbleberry, tree tobacco, wild rose (multiflora) willow and other tough weeds

STORAGE AND DISPOSAL [trash can illustration]

PESTICIDE STORAGE: Store product in original container in a safe place away from direct sunlight.

DISPOSAL: If empty: Do not reuse this container. Place in trash or offer for recycling if available. If Partly Filled: Call your local solid waste agency (or 1-800-CLEANUP) for disposal instructions. Never place unused product down any indoor or outdoor drain.

HOW TO REFILL ROUNDUP READY-TO-USE CONTAINERS [Optional section]

24 fl oz Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 2 fl oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.

71995-29

EPA Approved 19 February 2004 Amendment dated 5 May-2004

- ½ Gallon Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 5 fl oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.
- Gallon Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 10 oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.
- 1.33 Gallon Roundup PNS (II):
 To empty container add 13 fl oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.
- 6L Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 16 fl oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.
- 2 Gallon Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 20 fl oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.

PRECAUTIONARY STATEMENTS [optional illustration]

[re-entry icon] People and pets may enter treated area after spray has dried.

HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION:

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

	FIRST AID
If in eyes	 Hold eye open and rinse slowly and gently for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. Call a poison control center (insert contact telephone #) or doctor for treatment advice.
	Emergency Medical Information
controlYou ma	e product container or label with you when calling a poison center or doctor, or going for treatment. y contact (insert contact telephone #) for emergency medical nt information.
This pro	educt is identified as [Insert brand name], Reg. No. 71995-29

ENVIRONMENTAL HAZARDS: This product is toxic to aquatic invertebrates. Do not apply directly to any body of water. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.

This product is protected by U.S. Patents No. 5,683,958 and No. 5,703,015 and No. 6,063,733 and No. 6,121,199 and No. 6,121,200. Other patents pending. No license granted under any non-U.S. patent(s).

This is an end-use product. Monsanto does not intend and has not registered if for reformulation or repackaging.

[phone icon] Questions, Comments or Medical Information call insert contact # www.roundup.com

Roundup is a trademark of Monsanto Technology LLC

©[] MONSANTO COMPANY

Manufactured for
Monsanto Company, Lawn & Garden Products
P.O. Box 418
Marysville, OH 43041
Form [___]
EPA Reg. No. 71995-29
EPA Est. 239-IA-3^I, 58996-MO-1^A
Superscript is first letter of lot number
Made in USA

APPENDIX 1 - Consolidated List of Label Claims

[Ordered alphabetically]

- ASPCA approved [ASPCA seal of approval to be submitted]
- Absorbed into both broadleaf and grassy weeds
- · Absorbs on contact, starts working immediately
- Also use for large jobs such as lawn renovation and vegetable and flower garden preparation
- Approved for most (many) lawn and garden uses
- Before [weed graphics] / After [weed graphics]
- · Begins absorbing on contact
- Can be used for habitat restoration, controlling exotic vegetation, and for site preparation of wildlife food plots
- Can reseed or sod lawns 7 days after treatment
- Concentrated for extra value
- Concentrated formula
- (Contains) FastAct™ (technology)
- Dead Weeds Guaranteed (or Your Money Back)
- · Dead (weeds) in a day
- · Deactivates in soil
- · Does not have soil activity
- Economical
- Economical concentrate formula
- Easy to apply with an Ortho Dial 'n Spray®, hose-end, tank or (hand held) trigger sprayer
- Even if it rains Roundup [or insert brand name] won't lose its effectiveness
- Exclusive Roundup [or insert brand name] formula
- Experience the Roundup Advantage (peel back this panel for detail) (see details inside / underneath this booklet) (see details on back panel)
- FastAct™ (Technology)
- · Fast-acting formula
- Fast-acting formula works twice as fast (50% faster)
- · Fast-acting formula absorbs to root more quickly
- · For control that doesn't (won't) wash away
- For general weed control kills weeds and grasses in 1 to 2 weeks roots and all
- For weeds that are dead in a (one) day
- · Guaranteed same effective results even if it rains within hours
- Guaranteed effective: Kills over 200 types of weeds and grasses, roots and all, with just one application
- Guaranteed (we guarantee it)
- Ideal for killing unwanted weeds and grasses throughout your yard. Use along fences;
 in cracks of walks, drives and patios; and around flower beds, trees and shrubs
- · Improved extra strength formula
- Improved formula, completely kills even the toughest weeds and grasses

- Keeps driveways, walkways, landscaping beds, and flower gardens weed-free all season long
- Kills almost all (annual and perennial) weeds, grasses and other unwanted plants
- Kills existing weeds only, no residual activity in soil
- · Kills more weeds in more places.
- Kills over 100 weeds
- . Kills (to) the root
- Kills (the toughest weeds and grasses) the root so weeds (they) don't come back
- Kills the root so weeds don't come back
- · Kills the roots of (both) broadleaf and grassy weeds
- . Kills the weed you see and the root you don't
- · Kills unwanted weeds and grasses, roots and all
- Kills weeds in flowerbeds, around trees, shrubs and fences, and on patios, paths, sidewalks, sidewalk cracks, walkways, driveways, and other areas in your yard
- · Kills weeds, roots and all
- Lawns and gardens can be reseeded or planted soon after treatment
- · Make only what you need
- Multipurpose grass and broadleaf weed control
- · NEW!
- Next day (this weekend) results: Begins killing on contact, visible results in 24 hours
- · No odor
- No root. No weed. No problem.
- NOW!

71995-29

- Now a shorter wait for replanting!
- · Once it enters the plant, it won't wash off
- One application kills over 200 types of weeds and grasses, roots and all (maximum effectiveness)
- Only Roundup's effectiveness (exclusive formula) won't be washed away by rain or watering 2 hours (30, 45, 60, 90 minutes) after treatment
- Only Roundup's effectiveness (formula) won't be washed away by rain or watering 2 hours (1 hour)(30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes) after treatment
- Proven (trusted) performance: Only Roundup [or insert brand name] works the first time, every time – and has for 25 years
- Provides maximum control: Kills weeds to the root so they don't ever come back
- Quick kill formula (the toughest)
- Quick-action formula lets you see results 50% faster (two times)
- Ornamental gardens can be reseeded or planted 1 day after treatment
- RainFast in hours (30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes)- enters the plant on contact
- RAIN-PROOF™ (Mistake Proof)
- RAIN-PROOF™ in two hours (30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes) (for control that won't wash away)
- Roundup [or insert brand name] can be used (almost) anywhere weeds and grasses grow, including patios, walkways, and driveways; along fences; in landscaping beds;

- or around flowers, shrubs and trees
- (Roundup) [or insert brand name] Kills the weed you see and the root others leave behind
- Roundup's exclusive (patented) formula (technology) kills to the root so weeds don't come back
- Roundup [or insert brand name] kills weeds and grasses in Patios Driveways Sidewalks – Ornamental Gardens and other non-lawn areas
- Satisfaction guaranteed or we will gladly refund purchase price
- Satisfaction guaranteed or your money back with proof of purchase
- . (See) results in hours
- . (See) results in 24 hours
- Speeds absorption to the root for complete kill
- Spray weeds (Use) in flowerbeds, around trees, shrubs and around fences, and on patios, paths, sidewalks, sidewalk cracks, walkways, driveways, and other areas in your yard
- · Starts to kill in hours
- Starts working immediately (in hours)
- Stronger
- Transorb technology speeds Roundup to the root to kill even tough weeds
- Twice as fast
- (Use) For Brush Control
- (Use) For General Weed Control: Use along fences, paths, patios, sidewalks and driveways, around trees, shrubs, ornamental plantings, flowerbeds, and buildings, and in brick and gravel walkways.
- Use for large jobs like garden plot preparation and lawn replacement (renovation)
- (Use) For Lawn Renovation
- Use to trim and edge landscape areas.
- (Use) For Spot Spraying: Use in and around flowerbeds, ornamental trees, shrubs, fences, driveways and walkways
- (Use) For Stumps
- (Use in) Apply with a Big Shot™ Multi-Purpose Sprayer or other tank sprayer, or a (hand held) trigger sprayer
- Use to refill Roundup Ready-To-Use containers
- Use to prepare sites: for large plantings, for planting flowerbeds, fruit trees, ornamentals, vegetables and gardens, and for renovating lawns
- Visible effects are gradual wilting and yellowing advancing to complete browning and root destruction.
- Water based formula
- Won't wash off (away)
- · Works first time, every time
- · Works in hours
- Works overnight
- Works only when absorbed by the foliage of weeds

[Promotional options]

- Save up to \$[x] on (your) next purchase
- [X]% Free (More)
- · Free weed guide inside
- Free [] with this purchase of Roundup concentrate quart
- · FREE REFILL
- FREE SAMPLE
- SAMPLE NOT FOR SALE
- Value size

APPENDIX 2 - Packaging Related Claims

NET xx fl oz (qt or gal) (xx mL or L) 6 fl oz (177 mL) 6.5 fl oz (192 mL) 8 fl oz (237 mL) 13 oz (384 mL) 16 fl oz (1 pt) (473 mL) 32 fl oz (1 qt) 946 mL) 40 fl oz (1.18 L) 53.7 fl oz (0.42 gal) (1.5 L) 64 fl oz (1/2 gal) (1.89 L) 128 fl oz (1 gal) (3.79 L)

[corner flap]

OPEN

Resealable Label for Directions & Precautions

PULL HERE TO OPEN LABEL

PEEL HERE

PEEL OPEN FOR USE DIRECTIONS AND FURTHER INFORMATION

PRESS TO RESEAL

[Net contents] Makes up to 'X' gallons

Makes between 'X' - 'Y' gallons

Mix with water to make 'X' gallons of spray solution

Covers up to 'Z' sq ft

Mix with water to cover up to 'Z' sq ft

[$X = net contents \div 3$] [$Y = net contents \div 6$] [Z = X * 300]

[Pint] Makes up to 5 gallons

Makes between 21/2 - 5 gallons

Mix with water to make 5 gallons of spray solution

Covers up to 1,500 sq ft

Mix with water to cover up to 1,500 sq ft

[Quart] Makes up to 10 gallons

Makes between 5 - 10 gallons

Mix with water to make 10 gallons of spray solution

Covers up to 3,000 sq ft

Mix with water to cover up to 3,000 sq ft

Will Water to devel up to 0,000 eq 1

EPA Approved 19 February 2004 Amendment dated 5 May-2004

[0.42 Gallon] Makes up to 18 gallons

Makes between 9 - 18 gallons

Mix with water to make 18 gallons of spray solution

Covers up to 5,400 sq ft

Mix with water to cover up to 5,400 sq ft

[Half Gallon] Makes up to 21 gallons

Makes between 10 – 21 gallons

Mix with water to make 21 gallons of spray solution

Covers up to 6,300 sq ft

Mix with water to cover up to 6,300 sq ft

[Gallon] Makes up to 42 gallons

Makes between 21 - 42 gallons

Mix with water to make 42 gallons of spray solution

Covers up to 12,600 sq ft

Mix with water to cover up to 12,600 sq ft

New! Larger size, covers up to ['Z'] sq ft

With (the convenient) measuring cup, mixing [Insert brand name] (controlling weeds around your home) has never been easier

With (the convenient) measuring cup, controlling weeds all around your home has never been this fast and easy

Description of Changes for 071995-00029.20040505.pdf

This master label amendment incorporates the following changes:

- Additional advisory statement regarding use around vegetable gardens
- Additional advisory language for cut stump treatments
- Reduced plant-back intervals in When To Replant section
- Revised Storage and Disposal statements which comply with agreed upon text for consumer lawn and garden products
- Additional product claims

1. 1: 3 0: 6 : 6 : 8 - 6 : 8 1. 6 .	10.0071716	19151-111219	1 1	05/40/04
		- - -		L etcherty es
6. METHOD OF SUPPORT	1. 1900	17 1404484	1 40	
O. O.		· · · · · · · · · · · · · · · · · · ·	T	6 PROMOTED 007
7/9/04 AWP	Reuse M	Mate Call	E386	12. 94760ING 847
1/1/01	1000	300		7 0:
2 62 8 AEVIEW 7776	ARVIEWER COOR (Inches)	SIGNATURE OF REVIEWER	COM. WONT COOS	- 0.0
A = gv:g=+0:0177 7840	11			1 1
8 610167 00160 1610	11			111
C	1.			1 1
0	11			
E ************************************		·		
F	1.1	UKW	RL	d.7/09/04
G	11			
H coeriagnerir series	11:			
J 666 00 6 - 101661-16186				
X 655.00c= -440.6106				
L CEE	1 1			
M (55 00000 000011000				
N 656 00 1-6- 0:000 667407				
9 ******* ** *******		•		
P CEE BRANCH ENVIORS .	1 1			
Q ************************************		•	-	
A CEE COMMITTE COVIDED	1 1		-	. , , ,
8	1. 1			
•			-	
OVET MANAGER SIGNATURE .		TIM OF SUPPORT	<u></u>	

EPA POPE 6578-13 (3-78)



05 May 2004

Hand Delivered

Document Processing Center (AMEND)
Office of Pesticide Programs
U.S. Environmental Protection Agency
Room 266A, Crystal Mall 2,
1921 Jefferson Davis Highway
Arlington, VA 22202-4501

Attention:

Mr. James Tompkins (7504C) Product Manager (Team 25)

Subject:

Submission of Revised Master Labeling EPA Reg. No. 71995-29

Dear Mr. Tompkins,

Monsanto is herein submitting a revised Master Label for EPA Registration Number 71995-29. The revised Master Label incorporates the following changes:

- Additional advisory statement regarding use around vegetable gardens
- Additional advisory language for cut stump treatments
- Reduced plant-back intervals in When to Replant section
- Revised Storage and Disposal statements which comply with agreed upon text for consumer lawn and garden products
- Additional product claims

This submission is classified as part of the Agency's fast-track program therefore no fee is due.

The following documents are enclosed with this letter:

- Application for Pesticide (form 8570-1)
- CD-Rom containing this cover letter, required forms, and the electronic label (filename: 071995-00029.20040505.pdf)
- Certification with Respect to Label Integrity
- Five copies of the revised Master Label
- One copy of the revised Master Label highlighting changes to 19 February 2004 Stamped Label

Should you require any additional information or have any questions, please contact Dr. Russ Schneider at our Washington office (202)-383-2866, or me directly at (314) 694-8785 or by email at rhonda.m.mannion@monsanto.com.

Sincerely, Minde W. Manner

Rhonda M. Mannion Registration Manager

MONSANTO COMPANY
600 13TH STREET, N.W.

WASHINGTON, D.C. 20005

http://www.monsagto.com

SUITE 660

cc: V. Walters / EPA

R. Schneider / DC Office

File copy

\$EPA	United St Environmental Pro Washington, E	ates tection Agency	Registration Amendment Other	OPP Identifier Number 294156
	Applicati	ion for Pesticide - Sec	tion I	
Company/Product Numb Products; EPA Reg. N	er Monsanto Company, Lawn & Gar o. 71995-29		ager 3 Tompkins	. Proposed Classification
Products	e) Monsanto Company, Lawn & Gar ller Concentrate Plus; MON 78307 H		25	None Restricted
5. Name and Address of Ap Monsanto Company 1300 I Street, NW Suite 450 East Washington, DC 20	pplicant (Include ZIP Code)	6.Expedited Revie product is similar or in	ew. In accordance with FIF dentical in composition and	Committee of the commit
Oncok ii tiilo io a new e		Section – II		
Notification – Explain Explanation: Use addition	ponse to Agency letter dated	Agency lette "Me Too" Ap Other – Exp	pplication.	
		Section - III		
Material This Product W Child-Resistant Packaging Yes* No * Certification must be submitted	Unit Packaging Yes No If "Yes" Vnit Packaging wgt. Vo. per Container	Water Soluble Packaging Yes No If "Yes" Package wgt. No. per Package wgt.	2. Type of Containe Metal Plastic Glass Paper Other (Spec	
Location of Net Contents Label Cont	Information 4. Size(s) F	Retail Container Various	5. Location of Label Direct On Label On Labeling accomp	tions
6. Manner in Which Label is		graph Other r glued ciled	r	
1 Contact Bally (Const.)		Section – IV		(Cardina)
Name Russell Schneider, Ph.	tems directly below for identification D.	Title Director, Regulatory Affairs	Telepho	one No. (Include Area Code) (202) 383-2866
	Certificents I have made on this form and all knowingly false or misleading stater aw.	l attachments thereto are true, accu		6. Pate Application Received (Stamped)
Minde M. M.	Namur	Registration Manager		
Typed Name Rhonda M. Mannion	314/ 694-8785	5. Date 05 May 2004	::::-	

EPA Form 8570-1 (Rev. 3-94) Previous editions are obsolete.

White - EPA File Copy (original)

Yellow - Applicant Copy

Certification with Respect to Label Integrity

Version: 9/11/02

I certify that the information (including, but not limited to, text, tables, and graphics) contained in the electronic file identified below by file name and submitted with this certification is the same information as that on the paper copies of these documents included with this submission.

PROPOSED LABEL			
EPA Registration #	Date Submitted to EPA	Electronic file name	
71995-29	05/05/2004	071995-00029.20040505.pdf	

I certify that the statements that I have made on this form are true, accurate, and complete. I acknowledge that any knowingly false or misleading statements may be punishable by fine or imprisonment or both under applicable law.

Minda M. Mannion
Signature

05 May 2004

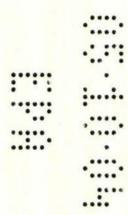
Date

Rhonda M. Mannion

Name (typed)

Registration Manager

Title





MONSANTO COMPANY
600 13TH STREET, N.W.
SUITE 660
WASHINGTON, D.C. 20005
http://www.monsanto.com

10 February 2004

Hand Delivered

Document Processing Center (NOTIF)
Office of Pesticide Programs
U.S. Environmental Protection Agency
Room 266A, Crystal Mall 2,
1921 Jefferson Davis Highway
Arlington, VA 22202-4501

natification

Attention:

Mr. Jim Tompkins (7505C)

Product Manager (Team 25)

Subject:

Roundup® Weed & Grass Killer Concentrate Plus (Reg. No. 71995-29).

Notification of Label Changes.

Dear Mr. Tompkins:

Monsanto is herein submitting a revised Master Label for *Roundup Weed & Grass Killer Concentrate Plus* (Reg. No. 71995-29). The revised label is identical to the current stamped label dated 24 September 2002 except that the following statement has been added underneath the *Product Facts Box* on page 2:

"THIS BOTTLE CONTAINS AN ANTI-THEFT DEVICE, EITHER INSIDE OR ON THE BACK OF THE BOTTLE. IT DOES NOT AFFECT [Insert Brand Name] PERFORMANCE."

This statement is necessary to support the addition of an anti-theft device to our Roundup Concentrate Plus products; retailers are experiencing some product theft and have asked Monsanto to incorporate an anti-theft device. The same anti-theft device and corresponding statement is currently being used for our current Roundup Super Concentrate products.

The following documents are enclosed with this letter:

- Application for Pesticide (form 8570-1)
- CD-Rom containing this cover letter, required forms, and the electronic label (filename: 071995-00029.20040211.pdf)
- Certification with Respect to Label Integrity
- Five copies of the revised Master Label

Should you require any additional information or have any questions regarding this matter, please contact Dr. Russ Schneider at our Washington office (202) 783-2866, or me directly at (314) 694-8785 or via email at rhonda.m.mannion@monsanto.com.

Sincerely.

Rhonda M. Mannion Registration Manager

Munda M. Munux

cc: R. Schneider / DC Office
V. Walters / EPA
J. Lambert / A2NC
File copy

⊕ EPA	Environment	United State	s ction Agend	су	R	egistration Amendment	OPP Identifier Number 296788
	Applicat	tion for F	esticide -	Section I			
1. Company/Product Number 71995-29			2. EPA Produc			3. Prop	posed Classification
Company/Product (Name) Roundup Weed & Grass Killer Concentrate Plus		s	PM # None Restrict			None Restricted	
5. Name and Address of Applican Monsanto Company, Law 600 13 th St., N.W., Suite 6 Washington, DC 20005	n & Garden Products 60		product is simil EPA Reg. No	lar or identical	in composit	e with FIFRA Se tion and labeling	
		Sec	tion – II				
Amendment – Exp	response to Agency letter date	ed		Final printed Agency lette "Me Too" A Other – Exp	er dated pplication.	esponse to	
Submission of revised Mass This notification is consistent with labeling or the confidential statem to EPA. I further understand that FIFRA and I may be subject to en	the provisions of PR Notice sent of formula of this product if this notification is not consi	98-10 and EPA I understand stent with the	A regulations at 40 I that it is a violation terms of PR Notice	O CFR 152.46 on of 18 U.S.C ce 98-10 and 4	Sec. 1001	to willfully make	any false statement
		Sect	ion – III				
1. Material This Product Will Be Child-Resistant Packaging Yes* No Pertification must be submitted	Unit Packaging Yes No	No. per Container	Water Soluble F Yes No If "Yes" Package wgt.	No. per Container		ype of Containe Metal Plastic Glass Paper Other	r
Label Container Label Affixe Manner in Which Label is Affixe		4. Size(s) Reta	oh	Other	5. Location On La	ecify) n of Label Directabel abeling accomp	
		Paper gl	i				
Contact Point (Complete items	directly helow for identification		ion – IV	if necessary t	n nracess th	nis application)	
Name Dr. Russell Schneider	arcolly bolow for lacramousless	Title	Director, Regul	1800	,	Telephone N	o. (Include Area Code) 783-2866
I certify that the statements I I acknowledge that any know both under applicable law.	have made on this form and						6. Date Application Received (Stamped)
Signature Who de W. M. Typed Name Rhonda, M. Mannion	Tel (314) 694-87	3. Title	Registration				

Certification with Respect to Label Integrity

Version: 9/11/02

I certify that the information (including, but not limited to, text, tables, and graphics) contained in the electronic file identified below by file name and submitted with this certification is the same information as that on the paper copies of these documents included with this submission.

PROPOSED LABEL			
EPA Registration #	Date Submitted to EPA	Electronic file name	
71995-29	02/11/2004	071995-00 <mark>0</mark> 29.20040211.pdf	

I certify that the statements that I have made on this form are true, accurate, and complete. I acknowledge that any knowingly false or misleading statements may be punishable by fine or imprisonment or both under applicable law.

Myndly M. Manner	11 February 2004
Signature	Date
Rhonda M. Mannion	
Name (typed)	
Registration Manager	
Title	

[Editorial Notes: Bracketed text [] is for internal use or serves as a 'place holder' for graphics. Parenthetical text () denotes optional wording.]

[Refer to APPENDIX 1 for consolidated list of label claims.]

[Refer to APPENDIX 2 for packaging related claims/instructions]

Roundup Weed & Grass Killer Concentrate Plus

Alternate Brand Name: MON 78307 Herbicide

KEEP OUT OF REACH OF CHILDREN CAUTION

See back panel booklet for additional precautionary statements. (Read precautions and directions on back label.)

NET [xxx]

	o xx sq ft (approx. size of XX tennis courts) culating coverage, one gallon treats 300 sq ft and a tennis court is
KILLS WEEDS	[Illustrate grassy, broadleaf and woody weeds] ALL TYPES OF WEEDS & GRASSES
WHERE TO USE	 On patios, walkways, driveways, gravel or mulch beds Around flowers, shrubs or trees Along fences Other areas in your yard
AMOUNT TO USE	For best results • 6 fl oz (12 Tbs) per gallon of water Apply on warm days in bright sunlight
[phone icon	Questions, Comments or Medical Information call (insert contact #) www.roundup.com

[For products where an anti-theft device has been added] This bottle contains an anti-theft device, either inside or on the back of the bottle. It does not affect [Insert Brand Name] performance.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

MIXING INSTRUCTIONS

[optional tank sprayer illustration]

Tank Sprayer (plastic, aluminum, fiberglass, plastic-lined steel or stainless steel. (Do not (mix, store or) apply with (in) a galvanized or unlined steel sprayer.)

- (For tough established weeds / For best results,) add 6 fl oz (12 Tbs) to 1 gallon of water.
- (For easy to kill weeds such as small seedlings, add 3 fl oz (6 Tbs) to 1 gallon of water.)
- (Spot treat)

1 Tablespoon (Tbs) = 3 teaspoons (tsp)

1 fl oz = 2 Tbs

Do not (mix, store or) apply with (in) a galvanized or unlined steel (except stainless steel) sprayer, or through any irrigation system.

71995-29

EPA Approved 24 Sept 2002 Notification Dated 11 February 2004 2

To clean sprayer after use, rinse sprayer and all sprayer parts with water 3 times. Spray rinse water on bare soil or gravel. After cleaning, sprayer may be used for other products.

USER SAFETY RECOMMENDATIONS [optional illustration]

- Clothing and protective equipment exposed to this product should be washed in detergent and hot water. Such items should be kept and washed separate from other laundry.
- Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Users should remove clothing immediately if product gets inside; then wash thoroughly and put on clean clothing.

HOW TO APPLY [optional illustration]

- Spray the weeds or grasses you want to kill until thoroughly wet.
- When spot treating weeds around desirable plants, shield plants from drift with a sheet (piece) of cardboard or plastic. If desirable plants are accidentally sprayed, rinse off immediately with water.

IMPORTANT: Do not spray plants or grasses you like - they may die too. Not recommended for spot weed control in lawns since Roundup [or insert brand name] kills lawn grasses.

Application Restrictions: Do not apply this product in a way that will contact any person or pet, either directly or through drift. Only the person applying this product may be in the area during application.

WHEN TO APPLY [optional illustration]

- Use anytime weeds and grasses are actively growing. (Apply when weeds are actively growing.)
- For best results, apply during warm, sunny weather (above 60° F) to accelerate systemic movement from foliage to roots.
- Apply when air is calm to prevent drift to desirable plants.
- [insert brand name] is Rainproof in 2 hours (30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes)
- [Alternate text] (RAIN-PROOF:) Rain or watering 2 hours (30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes) after application will not wash away effectiveness.
- · (Apply when weeds are small and before seeds form. Established (Hard to kill)

weeds may require a repeat application.)

ADDITIONAL TIPS [optional illustration]

To Kill Vines

- If vines are growing up poles, fences, or tree trunks with mature bark, cut vines to a height of 3 to 4 feet and spray vines thoroughly.
- If vines are climbing shrubs or tree trunks with green bark, cut vines at base and treat as directed for stumps or spray regrowth. If spraying regrowth, shield shrubs and green bark from spray drift with a sheet (piece) of cardboard or plastic.

To Kill Stumps

- Cut living stump close to ground.
- Drive (drill) 4 to 5 holes into freshly cut stump.
- Immediately pour undiluted product into holes.

Kudzu

For best results, apply in mid to late summer when vines are mature and actively growing.

Wild Blackberry

Spray anytime plants are actively growing. Dead canes should be cut down and removed. Reapplication is often required to kill deep roots.

· Poison Ivy & Poison Oak

Contact with these plants anytime of the year can cause an allergic reaction. Spray anytime plants are actively growing, but at least 4 weeks before the first killing frost in the fall. Reapply, if new growth appears. Handle dead plants with rubber gloves. Dispose of plants and rubber gloves in tightly sealed garbage bags.

WHEN TO REPLANT [optional illustration]

- All ornamental flowers, trees and shrubs may be planted 2 days after application.
- Lawn grasses may be planted 7 days after application.

HOW IT WORKS [optional illustration]

Roundup [insert brand name] enters plants through foliage and moves systemically to the roots, killing weeds by stopping the production of a substance found in plants. Any product (Roundup) [insert brand name] not absorbed by plants will be deactivated after it hits the soil. Weeds usually yellow and wilt within hours with complete kill in 1 to 2 weeks.

[Optional section]

KILLS ALL TYPES OF WEEDS & GRASSES [optional illustration]

Weeds (including): Artichoke thistle, beggarweed, black medic, blue mustard, blue toadflax, brassbuttons, broadleaf plantain, burclover, buttercup, Canada thistle, cattail, chickweed, cocklebur, common groundsel, common mullein, common plantain, common ragweed, creeping beggarweed, creeping-charlie, curly dock, dandelion, dog fennel, evening primrose, false dandelion, fiddleneck, field bindweed (wild morningglory), field pennycress, filaree, Florida pusley, garden spurge, henbit, horsenettle, horseradish, horseweed/ marestail, iceplant, knapweed, knotweed, lambsquarters, lantana, little bittercress, London rocket, mallow, mayweed, milkweed, mouseear chickweed, narrowleaf (buckhorn) plantain, nightshade (silverleaf), oldenlandia, oxalis, Pennsylvania smartweed, pennywort, poison hemlock, prickly lettuce, primrose, prostrate spurge, puncturevine, ragweed, red clover, redroot pigweed, shepherdspurse, smooth catsear, smooth pigweed, sowthistle, spotted spurge, tansy ragwort, tansymustard, teaweed, trumpetcreeper, tumble mustard, Virginia creeper, white clover, whitetop, wild barley, wild mustard, wild oats, wild sweet potato, yellow starthistle, and other broadleaf weeds

Grasses (including): Annual bluegrass, annual ryegrass, bahiagrass, barnyardgrass, bentgrass, Bermudagrass, bromegrass, Cogongrass, crabgrass, creeping bentgrass, dallisgrass, fall panicum, fescue, field sandbur, foxtail, goosegrass, guineagrass, Johnsongrass, Kentucky bluegrass, kikuyugrass, lovegrass, maidencane, nimblewill, nutsedge, orchardgrass, pampas grass, perennial ryegrass, purple nutsedge, quackgrass, sandspur, smooth bromegrass, sprangletop, St. Augustinegrass, tall fescue, Texas panicum, Timothy, torpedograss, vaseygrass, witchgrass, yellow nutgrass, zoysia and other grassy weeds

Brush (Tough Weeds), Unwanted Trees, Shrubs & Vines (including):
Alder, ash, (quacking) aspen, blackberry, bluegum eucalyptus, broom (French, Scotch), buckwheat, ceanothus, chamise, cherry, coyote brush, dewberry, elderberry, elm, eucalyptus, giant reed, hawthorn, hazel, honeysuckle, kudzu, locust, madrone, maple, oak, persimmon, poison oak, poison ivy, poplar, raspberry, sage, sagebrush, salmonberry, saltcedar, sassafras, sumac, sweetgum, tan oak, thimbleberry, tree tobacco, wild rose (multiflora) willow and other tough weeds

STORAGE AND DISPOSAL [trash can illustration]

STORAGE: Store in original container in a safe place away from direct sunlight.

DISPOSAL: Empty Container: Do not reuse container. Put in trash. (Recycle where available.) Partially Full Container: Call your local waste disposal service or 1-800-CLEANUP. Never pour product down any drain.

HOW TO REFILL ROUNDUP READY-TO-USE CONTAINERS

- 24 fl oz Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 2 fl oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.
- ½ Gallon Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 5 fl oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.
- Gallon Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 10 oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.
- 1.33 Gallon Roundup PNS (II):
 To empty container add 13 fl oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.
- 6L Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 16 fl oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.
- 2 Gallon Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 20 fl oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.

PRECAUTIONARY STATEMENTS [optional illustration]

[Re-entry icon] People and pets may enter treated area after spray has dried.

HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION:

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

	FIRST AID
If in eyes	 Hold eye open and rinse slowly and gently for 15-20 minutes Remove contact lenses, if present, after first 5 minutes, then continue rinsing. Call a poison control center (insert contact telephone #) or doctor for treatment advice.
	Emergency Medical Information

- Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
- You may contact (insert contact telephone #) for emergency medical treatment information.
- This product is identified as [insert brand name], Reg. No. 71995-29

ENVIRONMENTAL HAZARDS: This product is toxic to aquatic invertebrates. Do not apply directly to any body of water. Do not contaminate water when disposing of equipment washwaters.

NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.

This product is protected by U.S. Patents No. 5,683,958 and No. 5,703,015 and No. 6,063,733 and No. 6,121,199 and No. 6,121,200. Other patents pending. No license granted under any non-U.S. patent(s).

This is an end-use product. Monsanto does not intend and has not registered if for reformulation or repackaging.

[phone icon] Questions, Comments of	or Medical Information	
call insert contact #	www.roundup.com	

Roundup is a trademark of Monsanto Technology LLC

©[__] MONSANTO COMPANY

Manufactured for
Monsanto Company, Lawn & Garden Products
P.O. Box 418
Marysville, OH 43041-0418
Form [___]
EPA Reg. No. 71995-29

71995-29

EPA Approved 24 Sept 2002 Notification Dated 11 February 2004 7

EPA Est. 239-IA-3^I, 58996-MO-1^A Superscript is first letter of lot number Made in USA

APPENDIX 1 - Consolidated List of Label Claims

[Ordered alphabetically]

- · Absorbed into both broadleaf and grassy weeds
- Absorbs on contact, starts working immediately
- · Approved for most (many) lawn and garden uses
- Before [weed graphics] / After [weed graphics]
- · Begins absorbing on contact
- Can be used for habitat restoration, controlling exotic vegetation, and for site preparation of wildlife food plots
- Can reseed or sod lawns 7 days after treatment
- · Concentrated for extra value
- · Concentrated formula
- (Contains) FastAct[™] (technology)
- Dead Weeds Guaranteed (or Your Money Back)
- · Dead (weeds) in a day
- · Does not have soil activity
- Economical
- · Economical concentrate formula
- Easy to apply with a tank or (hand held) trigger sprayer
- Even if it rains Roundup [or insert brand name] won't lose its effectiveness
- · Exclusive Roundup [or insert brand name] formula
- Experience the Roundup Advantage (peel back this panel for detail) (see details inside / underneath this booklet) (see details on back panel)
- FastAct[™] (Technology)
- · Fast-acting formula
- Fast-acting formula works twice as fast (50% faster)
- Fast-acting formula absorbs to root more quickly
- For control that doesn't (won't) wash away
- For general weed control kills weeds and grasses in 1 to 2 weeks roots and all
- · For weeds that are dead in a (one) day
- Guaranteed same effective results even if it rains within hours
- Guaranteed effective: Kills over 200 types of weeds and grasses, roots and all, with just one application
- Guaranteed (we guarantee it)
- Ideal for killing unwanted weeds and grasses throughout your yard. Use along fences; in cracks of walks, drives and patios; and around flower beds, trees and shrubs
- · Improved extra strength formula
- Improved formula, completely kills even the toughest weeds and grasses
- Keeps driveways, walkways, landscaping beds, and flower gardens weed-free all season long
- Kills almost all (annual and perennial) weeds, grasses and other unwanted plants
- Kills existing weeds only, no residual activity in soil
- Kills more weeds in more places.

- · Kills over 100 weeds
- . Kills (to) the root
- Kills (the toughest weeds and grasses) the root so weeds (they) don't come back
- Kills the root so weeds don't come back
- Kills the roots of (both) broadleaf and grassy weeds
- Kills the weed you see and the root you don't
- · Kills unwanted weeds and grasses, roots and all
- Kills weeds in flowerbeds, around trees, shrubs and fences, and on patios, paths, sidewalks, sidewalk cracks, walkways, driveways, and other areas in your yard
- · Kills weeds, roots and all
- · Lawns and gardens can be reseeded or planted soon after treatment
- · Make only what you need
- · Multipurpose grass and broadleaf weed control
- · NEW!
- · Next day (this weekend) results: Begins killing on contact, visible results in 24 hours
- · No odor
- · No root. No weed. No problem.
- · NOW!
- · Now a shorter wait for replanting!
- · Once it enters the plant, it won't wash off
- One application kills over 200 types of weeds and grasses, roots and all (maximum effectiveness)
- Only Roundup's effectiveness (exclusive formula) won't be washed away by rain or watering 2 hours (30, 45, 60, 90 minutes) after treatment
- Only Roundup's effectiveness (formula) won't be washed away by rain or watering 2 hours (1 hour)(30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes) after treatment
- Proven (trusted) performance: Only Roundup [or insert brand name] works the first time, every time – and has for 25 years
- Provides maximum control: Kills weeds to the root so they don't ever come back
- · Quick kill formula (the toughest)
- Quick-action formula lets you see results 50% faster (two times)
- Ornamental gardens can be reseeded or planted 1 day after treatment
- RainFast in hours (30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes)- enters the plant on contact
- RAIN-PROOF™ (Mistake Proof)
- RAIN-PROOF™ in two hours (30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes) (for control that won't wash away)
- Roundup [or insert brand name] can be used (almost) anywhere weeds and grasses grow, including patios, walkways, and driveways; along fences; in landscaping beds; or around flowers, shrubs and trees
- (Roundup) [or insert brand name] Kills the weed you see and the root others leave behind
- · Roundup's exclusive (patented) formula (technology) kills to the root so weeds don't

71995-29

come back

- Roundup [or insert brand name] kills weeds and grasses in Patios Driveways Sidewalks – Ornamental Gardens and other non-lawn areas
- · Satisfaction guaranteed or we will gladly refund purchase price
- Satisfaction guaranteed or your money back with proof of purchase
- (See) results in hours
- (See) results in 24 hours
- Speeds absorption to the root for complete kill
- Spray weeds (Use) in flowerbeds, around trees, shrubs and around fences, and on patios, paths, sidewalks, sidewalk cracks, walkways, driveways, and other areas in your yard
- Starts to kill in hours
- Starts working immediately (in hours)
- Stronger
- Transorb technology speeds Roundup to the root to kill even tough weeds
- Twice as fast
- (Use) For Brush Control
- (Use) For General Weed Control: Use along fences, paths, patios, sidewalks and driveways, around trees, shrubs, ornamental plantings, flowerbeds, and buildings, and in brick and gravel walkways.
- · Use to trim and edge landscape areas.
- (Use) For Spot Spraying: Use in and around flowerbeds, ornamental trees, shrubs, fences, driveways and walkways
- (Use) For Stumps
- (Use in) Apply with a Big Shot™ Multi-Purpose Sprayer or other tank sprayer, or a (hand held) trigger sprayer
- Visible effects are gradual wilting and yellowing advancing to complete browning and root destruction.
- Water based formula
- Won't wash off (away)
- · Works first time, every time
- Works in hours
- Works overnight
- · Works only when absorbed by the foliage of weeds

[Promotional options]

- · Save up to \$[x] on (your) next purchase
- [X]% Free (More)
- · Free weed guide inside
- Free [] with this purchase of Roundup concentrate quart
- FREE REFILL
- FREE SAMPLE
- SAMPLE NOT FOR SALE
- Value size

APPENDIX 2 - Packaging Related Claims

NET xx fl oz (qt or gal) (xx mL or L) 6 fl oz (177 mL) 6.5 fl oz (192 mL) 8 fl oz (237 mL) 13 oz (384 mL) 16 fl oz (1 pt) (473 mL) 32 fl oz (1 qt) 946 mL) 40 fl oz (1.18 L) 53.7 fl oz (0.42 gal) (1.5 L) 64 fl oz (1/2 gal) (1.89 L) 128 fl oz (1 gal) (3.79 L)

[corner flap]

OPEN

Resealable Label for Directions & Precautions

PULL HERE TO OPEN LABEL

PEEL HERE

PEEL OPEN FOR USE DIRECTIONS AND FURTHER INFORMATION

PRESS TO RESEAL

[Net contents] Makes up to 'X' gallons

Makes between 'X' - 'Y' gallons

Mix with water to make 'X' gallons of spray solution

Covers up to 'Z' sq ft

Mix with water to cover up to 'Z' sq ft

[$X = net contents \div 3$] [$Y = net contents \div 6$] [Z = X * 300]

[Pint] Makes u

Makes up to 5 gallons

Makes between 21/2 - 5 gallons

Mix with water to make 5 gallons of spray solution

Covers up to 1,500 sq ft

Mix with water to cover up to 1,500 sq ft

[Quart] Makes up to 10 gallons

Makes between 5 - 10 gallons

Mix with water to make 10 gallons of spray solution

Covers up to 3,000 sq ft

Mix with water to cover up to 3,000 sq ft

71995-29

EPA Approved 24 Sept 2002 Notification Dated 11 February 2004 13

[0.42 Gallon] Makes up to 18 gallons

Makes between 9 - 18 gallons

Mix with water to make 18 gallons of spray solution

Covers up to 5,400 sq ft

Mix with water to cover up to 5,400 sq ft

[Half Gallon] Makes up to 21 gallons

Makes between 10 - 21 gallons

Mix with water to make 21 gallons of spray solution

Covers up to 6,300 sq ft

Mix with water to cover up to 6,300 sq ft

[Gallon]

Makes up to 42 gallons

Makes between 21 - 42 gallons

Mix with water to make 42 gallons of spray solution

Covers up to 12,600 sq ft

Mix with water to cover up to 12,600 sq ft

New! Larger size, covers up to ['Z'] sq ft

With (the convenient) measuring cup, mixing MON 78307 (controlling weeds around your home) has never been easier

With (the convenient) measuring cup, controlling weeds all around your home has never been this fast and easy

Description of Changes for 071995-00029.20040211.pdf

This label notification incorporates the following:

· Addition of anti-theft statement

⊕ EPA		United State Protes Vashington, DC	ection Agen	су [=	stration endment r	OPP Identifier Number 296788
	Appli	cation for	Pesticide -	Section I			
1. Company/Product Number 71995-29			2. EPA Produ Mr. Jim	oct Manager Tompkins		3. Propos	ed Classification
Company/Product (Name) Roundup Weed & Gra	ss Killer Concentrate	Plus	PM# 25			Nor	ne Restricted
5. Name and Address of Application Monsanto Company, Law 600 13 th St., N.W., Suite Washington, DC 20005 Check if this is a new address	wn & Garden Product 660	S	product is sim EPA Reg. No	d Review. In ad ilar or identical in a o.	composition a	nd labeling to	
Officer if this is a flew addition	333	Sec	ction – II				
Amendment – Explanation: Use additional Submission of revised Machine This notification is consistent will labeling or the confidential state to EPA. I further understand the FIFRA and I may be subject to the submission of the subject to the subj	page(s) if necessary. (For aster Label incorpora the provisions of PR Normant of formula of this proat if this notification is not of	Section I and Se ting anti-theft tice 98-10 and Ef duct. I understar consistent with the	t device langua PA regulations at 4 nd that it is a violat e terms of PR Noti	0 CFR 152.46 , ar ion of 18 U.S.C Se ce 98-10 and 40 C	ated cation. n below. nd no other chec. 1001 to will	NOTIFIC FEB 2 6	2004
		Sec	tion – III			_	
1. Material This Product Will	Be Packaged In:	360	tion – iii				
Child-Resistant Packaging Yes* No Pertification must be submitted	Unit Packaging Yes No If "Yes" Unit Packaging wo	No. per	Water Soluble I Yes No If "Yes" Package wgt.	Packaging No. per Container	M Pi	f Container etal astic lass	
be submitted				1,100,000,000,000,000,000,000,000,000,0	(Specify)	ther	
3. Location of Net Contents Info		4. Size(s) Re	tail Container	5.	On Labelin	abel Direction g accompany	
6. Manner in Which Label is Affi	xed to Product	Lithogra Paper g Stencile	glued	Other		<u> </u>	
1 0-1-1 P-1-10	- d'd		tion – IV	W		aliantia - 9 0 0	
Contact Point (Complete item Name Dr. Russell Schneider		Title	Director, Regu		Te	lephone No. ((202) 78	Include Area Code

Certification

3. Title

5. Date

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or

EPA Form 8570-1 (Rev. 3-94) Previous editions are obsolete.

Tel. (314) 694-8785

both under applicable law.

Rhonda. M. Mannion

4. Typed Name

2. Signature Minde M. Mannon

White - EPA File Copy (original)

Registration Manager

11 February 2004

Yellow - Applicant Copy

6. Date Application

Received

(Stamped)

Certification with Respect to Label Integrity

Version: 9/11/02

I certify that the information (including, but not limited to, text, tables, and graphics) contained in the electronic file identified below by file name and submitted with this certification is the same information as that on the paper copies of these documents included with this submission.

PROPOSED LABEL			
EPA Registration #	Date Submitted to EPA	Electronic file name	
71995-29	02/11/2004	071995-00 <mark>02</mark> 9.2004 <mark>0</mark> 211.pdf	

I certify that the statements that I have made on this form are true, accurate, and complete. I acknowledge that any knowingly false or misleading statements may be punishable by fine or imprisonment or both under applicable law.

Myndly M. Manner	11 February 2004
Signature	Date
Rhonda M. Mannion	
Name (typed)	

Registration Manager

Title

[Editorial Notes: Bracketed text [] is for internal use or serves as a 'place holder' for graphics. Parenthetical text () denotes optional wording.]

[Refer to APPENDIX 1 for consolidated list of label claims.]

[Refer to APPENDIX 2 for packaging related claims/instructions]

Roundup Weed & Grass Killer Concentrate Plus

Alternate Brand Name: MON 78307 Herbicide

KEEP OUT OF REACH OF CHILDREN CAUTION

See back panel booklet for additional precautionary statements. (Read precautions and directions on back label.)

NET [xxx]

71995-29

EPA Approved 24 Sept 2002 Notification Dated 11 February 2004

The State of the S	o xx sq ft (approx. size of XX tennis courts) culating coverage, one gallon treats 300 sq ft and a tennis court is
KILLS WEEDS	[Illustrate grassy, broadleaf and woody weeds] ALL TYPES OF WEEDS & GRASSES
WHERE TO USE	 On patios, walkways, driveways, gravel or mulch beds Around flowers, shrubs or trees Along fences Other areas in your yard
AMOUNT TO USE	For best results • 6 fl oz (12 Tbs) per gallon of water Apply on warm days in bright sunlight
[phone icor	Questions, Comments or Medical Information call (insert contact #) www.roundup.com

[For products where an anti-theft device has been added] This bottle contains an anti-theft device, either inside or on the back of the bottle. It does not affect [Insert Brand Name] performance.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

MIXING INSTRUCTIONS

[optional tank sprayer illustration]

Tank Sprayer (plastic, aluminum, fiberglass, plastic-lined steel or stainless steel. (Do not (mix, store or) apply with (in) a galvanized or unlined steel sprayer.)

- (For tough established weeds / For best results,) add 6 fl oz (12 Tbs) to 1 gallon of water.
- (For easy to kill weeds such as small seedlings, add 3 fl oz (6 Tbs) to 1 gallon of water.)
- (Spot treat)

1 Tablespoon (Tbs) = 3 teaspoons (tsp)

1 fl oz = 2 Tbs

Do not (mix, store or) apply with (in) a galvanized or unlined steel (except stainless steel) sprayer, or through any irrigation system.

71995-29

EPA Approved 24 Sept 2002 Notification Dated 11 February 2004 To clean sprayer after use, rinse sprayer and all sprayer parts with water 3 times. Spray rinse water on bare soil or gravel. After cleaning, sprayer may be used for other products.

USER SAFETY RECOMMENDATIONS [optional illustration]

- Clothing and protective equipment exposed to this product should be washed in detergent and hot water. Such items should be kept and washed separate from other laundry.
- Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Users should remove clothing immediately if product gets inside; then wash thoroughly and put on clean clothing.

HOW TO APPLY [optional illustration]

- Spray the weeds or grasses you want to kill until thoroughly wet.
- When spot treating weeds around desirable plants, shield plants from drift with a sheet (piece) of cardboard or plastic. If desirable plants are accidentally sprayed, rinse off immediately with water.

IMPORTANT: Do not spray plants or grasses you like - they may die too. Not recommended for spot weed control in lawns since Roundup [or insert brand name] kills lawn grasses.

Application Restrictions: Do not apply this product in a way that will contact any person or pet, either directly or through drift. Only the person applying this product may be in the area during application.

WHEN TO APPLY [optional illustration]

- Use anytime weeds and grasses are actively growing. (Apply when weeds are actively growing.)
- For best results, apply during warm, sunny weather (above 60° F) to accelerate systemic movement from foliage to roots.
- Apply when air is calm to prevent drift to desirable plants.
- [insert brand name] is Rainproof in 2 hours (30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes)
- [Alternate text] (RAIN-PROOF:) Rain or watering 2 hours (30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes) after application will not wash away effectiveness.
- (Apply when weeds are small and before seeds form. Established (Hard to kill)

weeds may require a repeat application.)

ADDITIONAL TIPS [optional illustration]

To Kill Vines

- If vines are growing up poles, fences, or tree trunks with mature bark, cut vines to a height of 3 to 4 feet and spray vines thoroughly.
- If vines are climbing shrubs or tree trunks with green bark, cut vines at base and treat as directed for stumps or spray regrowth. If spraying regrowth, shield shrubs and green bark from spray drift with a sheet (piece) of cardboard or plastic.

To Kill Stumps

- Cut living stump close to ground.
- Drive (drill) 4 to 5 holes into freshly cut stump.
- Immediately pour undiluted product into holes.

Kudzu

For best results, apply in mid to late summer when vines are mature and actively growing.

Wild Blackberry

Spray anytime plants are actively growing. Dead canes should be cut down and removed. Reapplication is often required to kill deep roots.

Poison Ivy & Poison Oak

Contact with these plants anytime of the year can cause an allergic reaction. Spray anytime plants are actively growing, but at least 4 weeks before the first killing frost in the fall. Reapply, if new growth appears. Handle dead plants with rubber gloves. Dispose of plants and rubber gloves in tightly sealed garbage bags.

WHEN TO REPLANT [optional illustration]

- All ornamental flowers, trees and shrubs may be planted 2 days after application.
- Lawn grasses may be planted 7 days after application.

HOW IT WORKS [optional illustration]

Roundup [insert brand name] enters plants through foliage and moves systemically to the roots, killing weeds by stopping the production of a substance found in plants. Any product (Roundup) [insert brand name] not absorbed by plants will be deactivated after it hits the soil. Weeds usually yellow and wilt within hours with complete kill in 1 to 2 weeks.

[Optional section]

KILLS ALL TYPES OF WEEDS & GRASSES [optional illustration]

Weeds (including): Artichoke thistle, beggarweed, black medic, blue mustard, blue toadflax, brassbuttons, broadleaf plantain, burclover, buttercup, Canada thistle, cattail, chickweed, cocklebur, common groundsel, common mullein, common plantain, common ragweed, creeping beggarweed, creeping-charlie, curly dock, dandelion, dog fennel, evening primrose, false dandelion, fiddleneck, field bindweed (wild morningglory), field pennycress, filaree, Florida pusley, garden spurge, henbit, horsenettle, horseradish, horseweed/ marestail, iceplant, knapweed, knotweed, lambsquarters, lantana, little bittercress, London rocket, mallow, mayweed, milkweed, mouseear chickweed, narrowleaf (buckhorn) plantain, nightshade (silverleaf), oldenlandia, oxalis, Pennsylvania smartweed, pennywort, poison hemlock, prickly lettuce, primrose, prostrate spurge, puncturevine, ragweed, red clover, redroot pigweed, shepherdspurse, smooth catsear, smooth pigweed, sowthistle, spotted spurge, tansy ragwort, tansymustard, teaweed, trumpetcreeper, tumble mustard, Virginia creeper, white clover, whitetop, wild barley, wild mustard, wild oats, wild sweet potato, yellow starthistle, and other broadleaf weeds

Grasses (including): Annual bluegrass, annual ryegrass, bahiagrass, barnyardgrass, bentgrass, Bermudagrass, bromegrass, Cogongrass, crabgrass, creeping bentgrass, dallisgrass, fall panicum, fescue, field sandbur, foxtail, goosegrass, guineagrass, Johnsongrass, Kentucky bluegrass, kikuyugrass, lovegrass, maidencane, nimblewill, nutsedge, orchardgrass, pampas grass, perennial ryegrass, purple nutsedge, quackgrass, sandspur, smooth bromegrass, sprangletop, St. Augustinegrass, tall fescue, Texas panicum, Timothy, torpedograss, vaseygrass, witchgrass, yellow nutgrass, zoysia and other grassy weeds

Brush (Tough Weeds), Unwanted Trees, Shrubs & Vines (including):
Alder, ash, (quacking) aspen, blackberry, bluegum eucalyptus, broom (French, Scotch), buckwheat, ceanothus, chamise, cherry, coyote brush, dewberry, elderberry, elm, eucalyptus, giant reed, hawthorn, hazel, honeysuckle, kudzu, locust, madrone, maple, oak, persimmon, poison oak, poison ivy, poplar, raspberry, sage, sagebrush, salmonberry, saltcedar, sassafras, sumac, sweetgum, tan oak, thimbleberry, tree tobacco, wild rose (multiflora) willow and other tough weeds

STORAGE AND DISPOSAL [trash can illustration]

STORAGE: Store in original container in a safe place away from direct sunlight.

DISPOSAL: Empty Container: Do not reuse container. Put in trash. (Recycle where available.) Partially Full Container: Call your local waste disposal service or 1-800-CLEANUP. Never pour product down any drain.

HOW TO REFILL ROUNDUP READY-TO-USE CONTAINERS

- 24 fl oz Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 2 fl oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.
- ½ Gallon Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 5 fl oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.
- Gallon Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 10 oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.
- 1.33 Gallon Roundup PNS (II):
 To empty container add 13 fl oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.
- 6L Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 16 fl oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.
- 2 Gallon Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 20 fl oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.

PRECAUTIONARY STATEMENTS [optional illustration]

[Re-entry icon] People and pets may enter treated area after spray has dried.

HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION:

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

	FIRST AID
If in eyes	 Hold eye open and rinse slowly and gently for 15-20 minutes Remove contact lenses, if present, after first 5 minutes, then continue rinsing. Call a poison control center (insert contact telephone #) or doctor for treatment advice.
	Emergency Medical Information
controlYou ma	e product container or label with you when calling a poison center or doctor, or going for treatment. by contact (insert contact telephone #) for emergency medical ont information.
 inis pro 	oduct is identified as [insert brand name], Reg. No. 71995-29

ENVIRONMENTAL HAZARDS: This product is toxic to aquatic invertebrates. Do not apply directly to any body of water. Do not contaminate water when disposing of equipment washwaters.

NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.

This product is protected by U.S. Patents No. 5,683,958 and No. 5,703,015 and No. 6,063,733 and No. 6,121,199 and No. 6,121,200. Other patents pending. No license granted under any non-U.S. patent(s).

This is an end-use product. Monsanto does not intend and has not registered if for reformulation or repackaging.

[phone icon] Questions, Comments or Medical Information
call insert contact # www.roundup.com

Roundup is a trademark of Monsanto Technology LLC

©[__] MONSANTO COMPANY

Manufactured for Monsanto Company, Lawn & Garden Products P.O. Box 418 Marysville, OH 43041-0418 Form [___] EPA Reg. No. 71995-29

71995-29

EPA Approved 24 Sept 2002 Notification Dated 11 February 2004

EPA Est. 239-IA-3^I, 58996-MO-1^A Superscript is first letter of lot number Made in USA

APPENDIX 1 - Consolidated List of Label Claims

[Ordered alphabetically]

- · Absorbed into both broadleaf and grassy weeds
- Absorbs on contact, starts working immediately
- · Approved for most (many) lawn and garden uses
- Before [weed graphics] / After [weed graphics]
- · Begins absorbing on contact
- Can be used for habitat restoration, controlling exotic vegetation, and for site preparation of wildlife food plots
- Can reseed or sod lawns 7 days after treatment
- · Concentrated for extra value
- · Concentrated formula
- (Contains) FastAct™ (technology)
- Dead Weeds Guaranteed (or Your Money Back)
- · Dead (weeds) in a day
- · Does not have soil activity
- Economical
- Economical concentrate formula
- · Easy to apply with a tank or (hand held) trigger sprayer
- Even if it rains Roundup [or insert brand name] won't lose its effectiveness
- · Exclusive Roundup [or insert brand name] formula
- Experience the Roundup Advantage (peel back this panel for detail) (see details inside / underneath this booklet) (see details on back panel)
- FastAct™ (Technology)
- Fast-acting formula
- Fast-acting formula works twice as fast (50% faster)
- Fast-acting formula absorbs to root more quickly
- For control that doesn't (won't) wash away
- For general weed control kills weeds and grasses in 1 to 2 weeks roots and all
- For weeds that are dead in a (one) day
- · Guaranteed same effective results even if it rains within hours
- Guaranteed effective: Kills over 200 types of weeds and grasses, roots and all, with just one application
- · Guaranteed (we guarantee it)
- Ideal for killing unwanted weeds and grasses throughout your yard. Use along fences; in cracks of walks, drives and patios; and around flower beds, trees and shrubs
- Improved extra strength formula
- · Improved formula, completely kills even the toughest weeds and grasses
- Keeps driveways, walkways, landscaping beds, and flower gardens weed-free all season long
- · Kills almost all (annual and perennial) weeds, grasses and other unwanted plants
- · Kills existing weeds only, no residual activity in soil
- Kills more weeds in more places.

- Kills over 100 weeds
- . Kills (to) the root
- Kills (the toughest weeds and grasses) the root so weeds (they) don't come back
- · Kills the root so weeds don't come back
- Kills the roots of (both) broadleaf and grassy weeds
- Kills the weed you see and the root you don't
- · Kills unwanted weeds and grasses, roots and all
- Kills weeds in flowerbeds, around trees, shrubs and fences, and on patios, paths, sidewalks, sidewalk cracks, walkways, driveways, and other areas in your yard
- · Kills weeds, roots and all
- Lawns and gardens can be reseeded or planted soon after treatment
- · Make only what you need
- · Multipurpose grass and broadleaf weed control
- · NEW!
- · Next day (this weekend) results: Begins killing on contact, visible results in 24 hours
- No odor
- · No root. No weed. No problem.
- · NOW!
- Now a shorter wait for replanting!
- Once it enters the plant, it won't wash off
- One application kills over 200 types of weeds and grasses, roots and all (maximum effectiveness)
- Only Roundup's effectiveness (exclusive formula) won't be washed away by rain or watering 2 hours (30, 45, 60, 90 minutes) after treatment
- Only Roundup's effectiveness (formula) won't be washed away by rain or watering 2 hours (1 hour)(30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes) after treatment
- Proven (trusted) performance: Only Roundup [or insert brand name] works the first time, every time – and has for 25 years
- Provides maximum control: Kills weeds to the root so they don't ever come back
- Quick kill formula (the toughest)
- Quick-action formula lets you see results 50% faster (two times)
- Ornamental gardens can be reseeded or planted 1 day after treatment
- RainFast in hours (30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes)- enters the plant on contact
- RAIN-PROOF™ (Mistake Proof)
- RAIN-PROOF™ in two hours (30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes) (for control that won't wash away)
- Roundup [or insert brand name] can be used (almost) anywhere weeds and grasses grow, including patios, walkways, and driveways; along fences; in landscaping beds; or around flowers, shrubs and trees
- (Roundup) [or insert brand name] Kills the weed you see and the root others leave behind
- Roundup's exclusive (patented) formula (technology) kills to the root so weeds don't

come back

- Roundup [or insert brand name] kills weeds and grasses in Patios Driveways Sidewalks – Ornamental Gardens and other non-lawn areas
- Satisfaction guaranteed or we will gladly refund purchase price
- Satisfaction guaranteed or your money back with proof of purchase
- (See) results in hours
- (See) results in 24 hours
- Speeds absorption to the root for complete kill
- Spray weeds (Use) in flowerbeds, around trees, shrubs and around fences, and on patios, paths, sidewalks, sidewalk cracks, walkways, driveways, and other areas in your yard
- · Starts to kill in hours
- Starts working immediately (in hours)
- Stronger
- Transorb technology speeds Roundup to the root to kill even tough weeds
- · Twice as fast
- (Use) For Brush Control
- (Use) For General Weed Control: Use along fences, paths, patios, sidewalks and driveways, around trees, shrubs, ornamental plantings, flowerbeds, and buildings, and in brick and gravel walkways.
- Use to trim and edge landscape areas.
- (Use) For Spot Spraying: Use in and around flowerbeds, ornamental trees, shrubs, fences, driveways and walkways
- (Use) For Stumps
- (Use in) Apply with a Big Shot™ Multi-Purpose Sprayer or other tank sprayer, or a (hand held) trigger sprayer
- Visible effects are gradual wilting and yellowing advancing to complete browning and root destruction.
- Water based formula
- Won't wash off (away)
- Works first time, every time
- Works in hours
- Works overnight
- Works only when absorbed by the foliage of weeds

[Promotional options]

- Save up to \$[x] on (your) next purchase
- [X]% Free (More)
- Free weed guide inside
- Free [] with this purchase of Roundup concentrate quart
- FREE REFILL
- FREE SAMPLE
- SAMPLE NOT FOR SALE
- Value size

APPENDIX 2 - Packaging Related Claims

```
NET xx fl oz (qt or gal) (xx mL or L)
6 fl oz (177 mL)
6.5 fl oz (192 mL)
8 fl oz (237 mL)
13 oz (384 mL)
16 fl oz (1 pt) (473 mL)
32 fl oz (1 qt) 946 mL)
40 fl oz (1.18 L)
53.7 fl oz (0.42 gal) (1.5 L)
64 fl oz (1/2 gal) (1.89 L)
128 fl oz (1 gal) (3.79 L)
```

[corner flap]

OPEN

Resealable Label for Directions & Precautions

PULL HERE TO OPEN LABEL

PEEL HERE

PEEL OPEN FOR USE DIRECTIONS AND FURTHER INFORMATION

PRESS TO RESEAL

[Net contents] Makes up to 'X' gallons

Makes between 'X' - 'Y' gallons

Mix with water to make 'X' gallons of spray solution

Covers up to 'Z' sq ft

Mix with water to cover up to 'Z' sq ft

[
$$X = net contents \div 3$$
]
[$Y = net contents \div 6$]
[$Z = X * 300$]

[Pint]

Makes up to 5 gallons

Makes between 2½ - 5 gallons

Mix with water to make 5 gallons of spray solution

Covers up to 1,500 sq ft

Mix with water to cover up to 1,500 sq ft

[Quart]

Makes up to 10 gallons

Makes between 5 – 10 gallons

Mix with water to make 10 gallons of spray solution

Covers up to 3,000 sq ft

Mix with water to cover up to 3,000 sq ft

71995-29

EPA Approved 24 Sept 2002 Notification Dated 11 February 2004

13

[0.42 Gallon] Makes up to 18 gallons

Makes between 9 – 18 gallons

Mix with water to make 18 gallons of spray solution

Covers up to 5,400 sq ft

Mix with water to cover up to 5,400 sq ft

[Half Gallon] Makes up to 21 gallons

Makes between 10 - 21 gallons

Mix with water to make 21 gallons of spray solution

Covers up to 6,300 sq ft

Mix with water to cover up to 6,300 sq ft

[Gallon]

Makes up to 42 gallons

Makes between 21 - 42 gallons

Mix with water to make 42 gallons of spray solution

Covers up to 12,600 sq ft

Mix with water to cover up to 12,600 sq ft

New! Larger size, covers up to ['Z'] sq ft

With (the convenient) measuring cup, mixing MON 78307 (controlling weeds around your home) has never been easier

With (the convenient) measuring cup, controlling weeds all around your home has never been this fast and easy

Description of Changes for 071995-00029.20040211.pdf

This label notification incorporates the following:

· Addition of anti-theft statement



MONSANTO COMPANY

600 13TH STREET, N.W.
SUITE 660
WASHINGTON, D.C. 20005
http://www.monsanto.com

10 February 2004

Hand Delivered

Document Processing Center (NOTIF)
Office of Pesticide Programs
U.S. Environmental Protection Agency
Room 266A, Crystal Mall 2,
1921 Jefferson Davis Highway
Arlington, VA 22202-4501

Attention:

Mr. Jim Tompkins (7505C) Product Manager (Team 25)

Subject:

Roundup® Weed & Grass Killer Concentrate Plus (Reg. No. 71995-29).

Notification of Label Changes.

Dear Mr. Tompkins:

Monsanto is herein submitting a revised Master Label for *Roundup Weed & Grass Killer Concentrate Plus* (Reg. No. 71995-29). The revised label is identical to the current stamped label dated 24 September 2002 except that the following statement has been added underneath the *Product Facts Box* on page 2:

"THIS BOTTLE CONTAINS AN ANTI-THEFT DEVICE, EITHER INSIDE OR ON THE BACK OF THE BOTTLE. IT DOES NOT AFFECT [Insert Brand Name] PERFORMANCE."

This statement is necessary to support the addition of an anti-theft device to our Roundup Concentrate Plus products; retailers are experiencing some product theft and have asked Monsanto to incorporate an anti-theft device. The same anti-theft device and corresponding statement is currently being used for our current Roundup Super Concentrate products.

The following documents are enclosed with this letter:

- Application for Pesticide (form 8570-1)
- CD-Rom containing this cover letter, required forms, and the electronic label (filename: 071995-00029.20040211.pdf)
- Certification with Respect to Label Integrity
- Five copies of the revised Master Label

Should you require any additional information or have any questions regarding this matter, please contact Dr. Russ Schneider at our Washington office (202) 783-2866, or me directly at (314) 694-8785 or via email at rhonda.m.mannion@monsanto.com.

Sincerely,

Rhonda M. Mannion Registration Manager

cc: R. Schneider / DC Office V. Walters / EPA J. Lambert / A2NC

File copy

108



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Ms. Rhonda M. Mannion Monsanto Company 600 13th Street, NW suite 660 Washington, DC 20005

Dear Ms. Mannion:

Subject: Roundup Weed & Grass Killer Concentrate Plus (Add Lawn Renovation) EPA Registration No. 71995-29 Application Dated March 21, 2003

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act as amended is acceptable provided you make the following change before you release the product for shipment.

-Under Storage and Disposal, revise "Storage" to read "Pesticide Storage", revise "Disposal" to read "Pesticide Disposal" and add the subheading "Container Disposal".--

Submit two (2) copies of your final printed labeling before you release the product for shipment. Amended labeling supercedes all previously accepted ones. A stamped copy of labeling is enclosed for your records.

Sincerely,

James A. Tompkins for Product Manager 25 Herbicide Branch Registration Division (7505C)

[Editorial Notes: Bracketed text [] is for internal use or serves as a 'place holder' for graphics. Parenthetical text () denotes optional wording.]

[Refer to APPENDIX 1 for consolidated list of label claims.]

[Refer to APPENDIX 2 for packaging related claims/instructions]

Roundup Weed & Grass Killer Concentrate Plus

Alternate Brand Name: MON 78307 Herbicide

Other Ingredients81.27 %

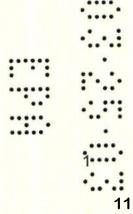
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 71995-19

with COMMENTS
In EPA Letter Dated:
FEB 1 9 2004

KEEP OUT OF REACH OF CHILDREN CAUTION

See back panel booklet for additional precautionary statements. (Read precautions and directions on back label.)

NET [xxx]



Product Fa	icts				
Treats up to	xx sq ft (approx. size of XX tennis courts)				
	culating coverage, one gallon treats 300 sq ft and a tennis court				
is 2,106 so	n ft.]				
KILLS WEEDS	[Illustrate grassy, broadleaf and woody weeds]				
WHERE TO USE	 On patios, walkways, driveways, gravel or mulch beds Around flowers, shrubs or trees Along fences 				
	In large areas - For lawn replacement - For garden plot preparation				
	Other areas in your yard				
AMOUNT	For best results				
TO USE					
Inhone icor	Questions, Comments or Medical Information				
priorie icor	call (insert contact #) www.roundup.com				

DIRECTIONS FOR USE

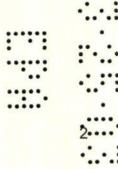
It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

MIXING INSTRUCTIONS

[optional tank sprayer illustration]

Tank Sprayer (plastic, aluminum, fiberglass, plastic-lined steel or stainless steel. (Do not (mix, store or) apply with (in) a galvanized or unlined steel sprayer.)

- (For tough established weeds / For best results,) add 6 fl oz (12 Tbs) to 1 gallon of water.
- (For easy to kill weeds such as small seedlings, add 3 fl oz (6 Tbs) to 1 gallon of water.)
- · Spot treat or spray evenly over 300 sq ft



[optional DNS illustration]

Hose-End Sprayer

For large areas consider using the Ortho Dial 'n Spray®

- Set dial to 6 oz.
- To sprayer jar add 6 fl oz (12 Tbs) for each 300 sq ft. DO NOT add water.
- Spray evenly over measured area.
- After spraying, unused product can be poured back into its original container.
- 1 Tablespoon (Tbs) = 3 teaspoons (tsp)

1 fl oz = 2 Tbs

Do not (mix, store or) apply with (in) a galvanized or unlined steel (except stainless steel) sprayer, or through any irrigation system.

To clean sprayer after use, rinse sprayer and all sprayer parts with water 3 times. Spray rinse water on bare soil or gravel. After cleaning, sprayer may be used for other products.

USER SAFETY RECOMMENDATIONS [optional illustration]

- Clothing and protective equipment exposed to this product should be washed in detergent and hot water. Such items should be kept and washed separate from other laundry.
- Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Users should remove clothing immediately if product gets inside; then wash thoroughly and put on clean clothing.

HOW TO APPLY [optional illustration]

- Spray the weeds or grasses you want to kill until thoroughly wet.
- When spot treating weeds around desirable plants, shield plants from drift with a sheet (piece) of cardboard or plastic. If desirable plants are accide ntally sprayed, rinse off immediately with water.

IMPORTANT: Do not spray plants or grasses you like - they may die too. Not recommended for spot weed control in lawns since Roundup [or insert brand name] kills lawn grasses.

Application Restrictions: Do not apply this product in a way that will contact any person or pet, either directly or through drift. Only the person applying this product may be in the area during application.

WHEN TO APPLY [optional illustration]

- Use anytime weeds and grasses are actively growing. (Apply when weeds are actively growing.)
- For best results, apply during warm, sunny weather (above 60° F) to accelerate systemic movement from foliage to roots.
- Apply when air is calm to prevent drift to desirable plants.
- [insert brand name] is Rainproof in 2 hours (30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes)
- [Alternate text] (RAIN-PROOF:) Rain or watering 2 hours (30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes) after application will not wash away effectiveness.
- [optional text]Apply when weeds are small and before seeds form. Established (Hard to kill) weeds may require a repeat application.

ADDITIONAL TIPS [optional illustration]

For Lawn Replacement

Use [insert brand name] to kill a (an old) (an unwanted) lawn and (its) weeds before planting (a) new lawn (OR prior to laying a patio, sidewalk, or driveway).

[Alternate text] For lawn replacement use [insert brand name] to kill lawn and(&) weeds before planting new lawn.

- Skip one mowing before spraying.
- If soil is dry, water before application and 2 to 3 days after application.
- Wait 7 days after last application to rake, till or replant with seed or sod.
 [Alternate text]
 - Wait 7 days for weeds and lawn to die. Repeat if necessary.
 - Rake or till to prepare area for planting seed or sod.
- (If green patches remain after 7 days, reapply.)

[Alternate section]

(Great) [insert brand name] Project: Lawn Renovation

Use [insert brand name] to kill sections of a weed-infested lawn before reseeding.

- Apply [insert brand name] to lawn weeds and grasses Wait 7 days after application to rake, till or replant with seed or sod.
- Work (1" of) Scotts Lawn Soil with Starter Fertilizer into existing soil, mixing well.
- For thick, green grass guaranteed spread Scotts Pure Premium (or other Scotts grass seed) and water regularly (daily) to keep area moist (follow package instructions).
- For best results, add a thin layer of Scotts Miracle-Gro Sphagnum Peat Moss (or Scotts Lawn Soil) over the area to help seeded area stay moist throughout germination period.
- For Flowerbed and Garden (Plot) Preparation

Use [insert brand name] to kill weeds, grasses and brush before planting flowers, fruits, vegetables, trees or shrubs.

- If soil is dry, water before application and 2 to 3 days after application.
- Apply evenly over treatment area.
- (Wait 4 to 6 days for product to kill plants then cleanup plant refuse and till soil.)
- Wait (at least) 2 days before planting flowers, trees and shrubs. (Refer to the When To Replant section for planting intervals for fruits and vegetables)

[Alternate section]

- (Great) [insert brand name] Project: Garden(Plot) Preparation
 Use [insert brand name] to kill unwanted weeds and grasses before planting flowers, fruits, vegetables, trees or shrubs.
 - Apply [insert brand name] to vegetation in planting bed
 - (Wait 4 to 6 days for product to kill plants then cleanup plant refuse and till soil.)
 - Wait (at least) 2 days after application before planting flowers, trees, and shrubs. (Refer to the When To Replant section for planting intervals for fruits and vegetables)
 - For best results, add 3" of Miracle-Gro Garden Soil to your garden. Rototill or spade to a depth of 6", mixing well.
 - Feed (new) plants every 2 weeks with Miracle-Gro Plant Food (follow package instructions).

To Kill Vines

- If vines are growing up poles, fences, or tree trunks with mature bark, cut vines to a height of 3 to 4 feet and spray vines thoroughly.
- If vines are climbing shrubs or tree trunks with green bark, cut vines at base and treat as directed for stumps or spray regrowth. If spraying regrowth, shield shrubs and green bark from spray drift with a sheet (piece) of cardboard or plastic.

To Kill Stumps

- Cut living stump close to ground.
- Drive (drill) 4 to 5 holes into freshly cut stump.
- Immediately pour undiluted product into holes.

Kudzu

For best results, apply in mid to late summer when vines are mature and actively growing.

Wild Blackberry

Spray anytime plants are actively growing. Dead canes should be cut down and removed. Reapplication is often required to kill deep roots.

Poison Ivy & Poison Oak

Contact with these plants anytime of the year can cause an allergic reaction. Spray anytime plants are actively growing, but at least 4 weeks before the first killing frost



in the fall. Reapply, if new growth appears. Handle dead plants with rubber gloves. Dispose of plants and rubber gloves in tightly sealed garbage bags.

WHEN TO REPLANT [optional illustration]

- All ornamental flowers, trees and shrubs may be planted 2 days after application.
- Lawn grasses may be planted 7 days after application.

HOW IT WORKS [optional illustration]

Roundup [or *insert brand name*] enters plants through foliage and moves systemically to the roots, killing weeds by stopping the production of a substance found in plants. Any product (Roundup) [*insert brand name*] not absorbed by plants will be deactivated after it hits the soil. Weeds usually yellow and wilt within hours with complete kill in 1 to 2 weeks.

[optional section]

KILLS ALL TYPES OF WEEDS & GRASSES [optional illustration]

Weeds (including): Artichoke thistle, beggarweed, black medic, blue mustard, blue toadflax, brassbuttons, broadleaf plantain, burclover, buttercup, Canada thistle, cattail, chickweed, cocklebur, common groundsel, common mullein, common plantain, common ragweed, creeping beggarweed, creeping-charlie, curly dock, dandelion, dog fennel, evening primrose, false dandelion, fiddleneck, field bindweed (wild morningglory), field pennycress, filaree, Florida pusley, garden spurge, henbit, horsenettle, horseradish, horseweed/ marestail, iceplant, knapweed, knotweed, lambsquarters, lantana, little bittercress, London rocket, mallow, mayweed, milkweed, mouseear chickweed, narrowleaf (buckhorn) plantain, nightshade (silverleaf), oldenlandia, oxalis, Pennsylvania smartweed, pennywort, poison hemlock, prickly lettuce, primrose, prostrate spurge, puncturevine, ragweed, red clover, redroot pigweed, shepherdspurse, smooth catsear, smooth pigweed, sowthistle, spotted spurge, tansy ragwort, tansymustard, teaweed, trumpetcreeper, tumble mustard, Virginia creeper, white clover, whitetop, wild barley, wild mustard, wild oats, wild sweet potato, yellow starthistle, and other broadleaf weeds

Grasses (including): Annual bluegrass, annual ryegrass, bahiagrass, barnyardgrass, bentgrass, Bermudagrass, bromegrass, Cogongrass, crabgrass, creeping bentgrass, dallisgrass, fall panicum, fescue, field sandbur, foxtail, goosegrass, guineagrass, Johnsongrass, Kentucky bluegrass, kikuyugrass, lovegrass, maidencane, nimblewill, nutsedge, orchardgrass, pampas grass, perennial ryegrass, purple nutsedge, quackgrass, sandspur, smooth bromegrass, sprangletop, St. Augustinegrass, tall fescue, Texas panicum, Timothy, torpedograss, vaseygrass, witchgrass, yellow nutgrass, zoysia and other grassy weeds

Brush (Tough Weeds), Unwanted Trees, Shrubs & Vines (including):

Alder, ash, (quacking) aspen, blackberry, bluegum eucalyptus, broom (French, Scotch), buckwheat, ceanothus, chamise, cherry, coyote brush, dewberry, elderberry, elm, eucalyptus, giant reed, hawthorn, hazel, honeysuckle, kudzu, locust, madrone, maple, oak, persimmon, poison oak, poison ivy, poplar, raspberry, sage, sagebrush, salmonberry, saltcedar, sassafras, sumac, sweetgum, tan oak, thimbleberry, tree tobacco, wild rose (multiflora) willow and other tough weeds

STORAGE AND DISPOSAL [trash can illustration]

STORAGE: Store in original container in a safe place away from direct sunlight.

DISPOSAL: Empty Container: Do not reuse container. Put in trash. (Recycle where available.) Partially Full Container: Call your local waste disposal service or 1-800-CLEANUP. Never pour product down any drain.

HOW TO REFILL ROUNDUP READY-TO-USE CONTAINERS

- 24 fl oz Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 2 fl oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.
- ½ Gallon Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 5 fl oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.
- Gallon Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 10 oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.
- 1.33 Gallon Roundup PNS (II):
 To empty container add 13 fl oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.
- 6L Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 16 fl oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.
- 2 Gallon Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 20 fl oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.

PRECAUTIONARY STATEMENTS [optional illustration]

[re-entry icon] People and pets may enter treated area after spray has dried

HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION:

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

	FIRST AID
If in eyes	 Hold eye open and rinse slowly and gently for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. Call a poison control center (insert contact telphone #) or doctor for treatment advice.
	Emergency Medical Information

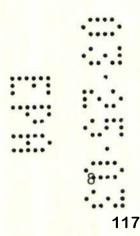
- Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
- You may contact (insert contact telephone #) for emergency medical treatment information.
- This product is identified as [insert brand name], Reg. No. 71995-29

ENVIRONMENTAL HAZARDS: This product is toxic to aquatic invertebrates. Do not apply directly to any body of water. Do not contaminate water when disposing of equipment washwaters.

NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.

This product is protected by U.S. Patents No. 5,683,958 and No. 5,703,015 and No. 6,063,733 and No. 6,121,199 and No. 6,121,200. Other patents pending. No license granted under any non-U.S. patent(s).

This is an end-use product. Monsanto does not intend and has not registered if for reformulation or repackaging.

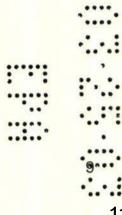


[phone icon] Questions, Comments or Medical Information call insert contact # www.roundup.com

Roundup is a trademark of Monsanto Technology LLC

©[__] MONSANTO COMPANY

Manufactured for
Monsanto Company, Lawn & Garden Products
P.O. Box 418
Marysville, OH 43041
Form [___]
EPA Reg. No. 71995-29
EPA Est. 239-IA-3^I, 58996-MO-1^A
Superscript is first letter of lot number
Made in USA



APPENDIX 1 - Consolidated List of Label Claims

[Ordered alphabetically]

- · Absorbed into both broadleaf and grassy weeds
- Absorbs on contact, starts working immediately
- Also use for large jobs such as lawn renovation and vegetable and flower garden preparation
- · Approved for most (many) lawn and garden uses
- Before [weed graphics] / After [weed graphics]
- Begins absorbing on contact
- Can be used for habitat restoration, controlling exotic vegetation, and for site preparation of wildlife food plots
- Can reseed or sod lawns 7 days after treatment
- · Concentrated for extra value
- · Concentrated formula
- (Contains) FastAct™ (technology)
- Dead Weeds Guaranteed (or Your Money Back)
- · Dead (weeds) in a day
- · Does not have soil activity
- Economical
- · Economical concentrate formula
- Easy to apply with an Ortho Dial 'n Spray®, hose-end, tank or (hand held) trigger sprayer
- Even if it rains Roundup [or insert brand name] won't lose its effectiveness
- · Exclusive Roundup [or insert brand name] formula
- Experience the Roundup Advantage (peel back this panel for detail) (see details inside / underneath this booklet) (see details on back panel)
- FastAct™ (Technology)
- Fast-acting formula
- Fast-acting formula works twice as fast (50% faster)
- Fast-acting formula absorbs to root more quickly
- For control that doesn't (won't) wash away
- For general weed control kills weeds and grasses in 1 to 2 weeks roots and all
- For weeds that are dead in a (one) day
- · Guaranteed same effective results even if it rains within hours
- Guaranteed effective: Kills over 200 types of weeds and grasses, roots and all, with just one application
- Guaranteed (we guarantee it)
- Ideal for killing unwanted weeds and grasses throughout your yard. Use along fences; in cracks of walks, drives and patios; and around flower beds, trees and shrubs
- Improved extra strength formula
- Improved formula, completely kills even the toughest weeds and grasses
- Keeps driveways, walkways, landscaping beds, and flower gardens weed-free all season long
- · Kills almost all (annual and perennial) weeds, grasses and other unwanted plants

- Kills existing weeds only, no residual activity in soil
- Kills more weeds in more places.
- Kills over 100 weeds
- Kills (to) the root
- Kills (the toughest weeds and grasses) the root so weeds (they) don't come back
- Kills the root so weeds don't come back
- Kills the roots of (both) broadleaf and grassy weeds
- Kills the weed you see and the root you don't
- Kills unwanted weeds and grasses, roots and all
- Kills weeds in flowerbeds, around trees, shrubs and fences, and on patios, paths, sidewalks, sidewalk cracks, walkways, driveways, and other areas in your yard
- Kills weeds, roots and all
- Lawns and gardens can be reseeded or planted soon after treatment
- Make only what you need
- Multipurpose grass and broadleaf weed control
- · NEW!
- Next day (this weekend) results: Begins killing on contact, visible results in 24 hours
- · No odor
- No root. No weed. No problem.
- · NOW!
- Now a shorter wait for replanting!
- · Once it enters the plant, it won't wash off
- One application kills over 200 types of weeds and grasses, roots and all (maximum effectiveness)
- Only Roundup's effectiveness (exclusive formula) won't be washed away by rain or watering 2 hours (30, 45, 60, 90 minutes) after treatment
- Only Roundup's effectiveness (formula) won't be washed away by rain or watering 2 hours (1 hour)(30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes) after treatment
- Proven (trusted) performance: Only Roundup [or insert brand name] works the first time, every time – and has for 25 years
- Provides maximum control: Kills weeds to the root so they don't ever come back
- Quick kill formula (the toughest)
- Quick-action formula lets you see results 50% faster (two times)
- Ornamental gardens can be reseeded or planted 1 day after treatment
- RainFast in hours (30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes)- enters the plant on contact
- RAIN-PROOF™ (Mistake Proof)
- RAIN-PROOF™ in two hours (30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes) (for control that won't wash away)
- Roundup [or insert brand name] can be used (almost) anywhere weeds and grasses grow, including patios, walkways, and driveways; along fences; in landscaping beds; or around flowers, shrubs and trees
- (Roundup) [or insert brand name] Kills the weed you see and the root others leave behind
- · Roundup's exclusive (patented) formula (technology) kills to the root so weeds don't

come back

- Roundup [or insert brand name] kills weeds and grasses in Patios Driveways Sidewalks – Ornamental Gardens and other non-lawn areas
- Satisfaction guaranteed or we will gladly refund purchase price
- Satisfaction guaranteed or your money back with proof of purchase
- (See) results in hours
- (See) results in 24 hours
- Speeds absorption to the root for complete kill
- Spray weeds (Use) in flowerbeds, around trees, shrubs and around fences, and on patios, paths, sidewalks, sidewalk cracks, walkways, driveways, and other areas in your yard
- Starts to kill in hours
- Starts working immediately (in hours)
- Stronger
- Transorb technology speeds Roundup to the root to kill even tough weeds
- Twice as fast
- (Use) For Brush Control
- (Use) For General Weed Control: Use along fences, paths, patios, sidewalks and driveways, around trees, shrubs, ornamental plantings, flowerbeds, and buildings, and in brick and gravel walkways.
- Use for large jobs like garden plot preparation and lawn replacement (renovation)
- · (Use) For Lawn Renovation
- Use to trim and edge landscape areas.
- (Use) For Spot Spraying: Use in and around flowerbeds, ornamental trees, shrubs, fences, driveways and walkways
- (Use) For Stumps
- (Use in) Apply with a Big Shot™ Multi-Purpose Sprayer or other tank sprayer, or a (hand held) trigger sprayer
- Use to refill Roundup Ready-To-Use containers
- Use to prepare sites: for large plantings, for planting flowerbeds, fruit trees, ornamentals, vegetables and gardens, and for renovating lawns
- Visible effects are gradual wilting and yellowing advancing to complete browning and root destruction.
- Water based formula
- · Won't wash off (away)
- Works first time, every time
- Works in hours
- Works overnight
- Works only when absorbed by the foliage of weeds

[Promotional options]

- Save up to \$[x] on (your) next purchase
- [X]% Free (More)
- Free weed guide inside
- Free [] with this purchase of Roundup concentrate quart
- FREE REFILL
- · FREE SAMPLE
- SAMPLE NOT FOR SALE
- Value size

APPENDIX 2 - Packaging Related Claims

NET xx fl oz (qt or gal) (xx mL or L) 6 fl oz (177 mL) 6.5 fl oz (192 mL) 8 fl oz (237 mL) 13 oz (384 mL) 16 fl oz (1 pt) (473 mL) 32 fl oz (1 qt) 946 mL) 40 fl oz (1.18 L) 53.7 fl oz (0.42 gal) (1.5 L) 64 fl oz (1/2 gal) (1.89 L) 128 fl oz (1 gal) (3.79 L)

[comer flap]

OPEN

Resealable Label for Directions & Precautions

PULL HERE TO OPEN LABEL

PEEL HERE

PEEL OPEN FOR USE DIRECTIONS AND FURTHER INFORMATION

PRESS TO RESEAL

[Net contents] Makes up to 'X' gallons

Makes between 'X' - 'Y' gallons

Mix with water to make 'X' gallons of spray solution

Covers up to 'Z' sq ft

Mix with water to cover up to 'Z' sq ft

[$X = net contents \div 3$] [$Y = net contents \div 6$] [Z = X * 300]

[Pint]

Makes up to 5 gallons

Makes between 2½ - 5 gallons

Mix with water to make 5 gallons of spray solution

Covers up to 1,500 sq ft

Mix with water to cover up to 1,500 sq ft

[Quart]

Makes up to 10 gallons

Makes between 5 – 10 gallons

Mix with water to make 10 gallons of spray solution

Covers up to 3,000 sq ft

Mix with water to cover up to 3,000 sq ft

[0.42 Gallon] Makes up to 18 gallons

Makes between 9 – 18 gallons

Mix with water to make 18 gallons of spray solution

Covers up to 5,400 sq ft

Mix with water to cover up to 5,400 sq ft

[Half Gallon] Makes up to 21 gallons

Makes between 10 – 21 gallons

Mix with water to make 21 gallons of spray solution

Covers up to 6,300 sq ft

Mix with water to cover up to 6,300 sq ft

[Gallon]

Makes up to 42 gallons

Makes between 21 - 42 gallons

Mix with water to make 42 gallons of spray solution

Covers up to 12,600 sq ft

Mix with water to cover up to 12,600 sq ft

New! Larger size, covers up to ['Z'] sq ft

With (the convenient) measuring cup, mixing MON 78307 (controlling weeds around your home) has never been easier

With (the convenient) measuring cup, controlling weeds all around your home has never been this fast and easy

Note For Records

Name of Product: Roundup Weed & Brass Killer Concentrate Plies

EPA Registration No./ File Symbol 7 (995-29

Submission Date: 3/21/03

Received Date: 3/25/03

Date Worked: 2/9/04 2 2/11/04

Description of Action: Add Broadcast residential uses of lum renewation and garden preparation. Label and Risk assessment submitted.

Renew (ald I Risk assessment.

Comments: Buckgrund; FR publication dated 9/18/02 lifted ban on reschential broadcarduses for dequal charile, one of the components of this product, Broadcart use for resulential rates are to be considered on case by case bosis.

Review of with assessment indicates all MOES for phenoid was one or greater than 100. Rich assessment appears to done correctly using most of same assemptions as in diquest RED accept for supply rate and after parameters appeared by agency on 9/18/02 publication a submitted by 0/= ETF. Mansents member of little force and permitted to use link four data little force and permitted to use link four data.

Signature and Date: Regular were with comment.

Vickie Walters 2/11/04

Please read instructions on	reverse before completing for	m.	Form	Approved OMB No	2070-0060	Approval Expires 2-28-95	
⊕ EPA	. United States		ection Agency		stration ndment	OPP Identifier Number - 394511 292243	
	Appl	lication for P	esticide - S	ection I			
1. Company/Product Number EPA Reg. No. 71995	5-29			Manager n Tompkins	3. F	Proposed Classification	
 Company/Product (Name Roundup Weed & Gr 	ass Killer Concentrate F	Plus	PM#	25		None Restricted	
5. Name and Address of Ap	plicant (<i>Include ZIP Code</i>) Lawn & Garden Produc uite 660 05			eview. In accordan	osition and la	A Section 3(c)(3) (b)(i), my abeling to:	
		Sect	ion – II		•••••		
Notification – Explair Explanation: Use addition	oonse to Agency letter dated		"Me Too Other –		4/8/03 95. Rem	w Ruh assemint	
Material This Product Wi	Il Be Packaged In:	Sect	ion – III				
Child-Resistant Packaging Yes* No * Certification must	Unit Packaging Yes No If "Yes" No. Unit Packaging wgt. Con	per If "Yes		M P G G P	of Container letal lastic lass aper		
be submitted	One Packaging wgt. Con	Tacka	ge wgt. Contain	e wgt. Container Othe		(Specify) Plant Cells	
Label Contents Cont	27.50	ize(s) Retail Contair Vario		5. Location of L On Label On Labelin		ons nying product	
6. Manner in Which Label is	Affixed to Product	Lithograph Paper glued Stenciled		Other			
			on – IV				
1. Contact Point (Complete i Name Dr. Marsha C. Gray	tems directly below for identifi	Title	to be contacted, if	necessary, to proces	The second second	ation.) e No. (Include Area Code) (202) 783-2460	
	ents I have made on this form knowingly false or misleading				te.	6. Date Application Received (Stamped)	
2. Signature Munda M	1221		tion Manager			#:.:: •:.::	
4. Typed Name Rhonda M. Mannion	314/ 694-8785	5. Date	March	2003		.:::.	
EPA Form 8570-1 (Rev. 3-9	4) Previous editions are obs	solete.	Wh	ite - EPA File Copy	(original)	Yellow - Applicant Copy	



MONSANTO COMPANY 800 NORTH LINDBERGH BLVD ST. LOUIS, MISSOURI 63167 http://www.monsanto.com

21 March 2003

Hand Delivered

Document Processing Center (AMEND)
Office of Pesticide Programs
U.S. Environmental Protection Agency
Room 266A, Crystal Mall 2,
1921 Jefferson Davis Highway
Arlington, VA 22202-4501

Attention:

Mr. Jim Tompkins (7505C)

Product Manager (Team 25)

Subject:

Roundup Weed & Grass Killer Concentrate Plus (EPA Reg. No. 71995-29).

Amendment to include broadcast applications.

Dear Mr. Tompkins,

On 18 September 2002 the Agency removed the ban on residential broadcast uses of diquat dibromide, stating that broadcast applications by homeowners will be decided on a case-by-case basis upon the review of short-term residential exposure and individual risk assessments. Monsanto currently markets a consumer residential product that contains diquat. Accordingly, Monsanto desires to incorporate the broadcast uses of lawn renovation and garden plot preparation into the Roundup Weed & Grass Killer Concentrate Plus registration (Reg. No. 71995-29).

To this end Monsanto has conducted short-term residential and aggregate risk assessments. These assessments were entirely based upon the Agency assessments as documented in the 6 March 2002 Diquat TRED with the following exceptions:

- A dermal absorption rate of 0.3% was used for diquat, EPA concluded that this value is acceptable for risk assessments in the 18 September 2002 Federal Register (Vol. 67, No. 181, p. 58797-99).
- The product specific use rate for Roundup Weed & Grass Killer Concentrate Plus (MON 78307) was used.
- The transferable residue value from the ORTEF report (Klonne, 2000) was substituted for the EPA default value of 5%. As a member of the ORTEF Monsanto is permitted to make reference to these data.

The resulting aggregate Margins of Exposure for females and children 1-6 years are 410 and 150, respectively. These MOEs meet the minimum acceptable threshold of 100 as established in the 2002 Diquat Dibromide TRED, therefore no adverse health effects are expected to occur as a result of the proposed broadcast uses of Roundup Weed & Grass Killer Concentrate Plus.

The following documents are enclosed with this letter:

- One (1) Applications for Pesticide Amendment (form 8570-1)
- Five (5) copies of the proposed Roundup Weed & Grass Killer Concentrate Plus Master Label
- One (1) copy of the proposed Roundup Weed & Grass Killer Concentrate Plus Master Label highlighting revisions to the most recent approved label dated 24 September 2002
- Short-term Residential and Aggregate Risk Assessment (C. Gustin, Nov. 2002)

Should you require any additional information or have any questions, please contact Dr. Marsha Gray at our Washington office (202)-783-2878 or me directly at (314) 694-8785 or rhonda.m.mannion@monsanto.com.

Sincerely,

Rhonda M. Mannion. Registration Manager

cc: V. Walters / EPA

M. Gray / DC Office

B. Kliewer/ C3ND (no attachment)

D. Fee-White/ A2N (no attachment)

File copy





MONSANTO COMPANY
600 13TH STREET, N.W.
SUITE 660
WASHINGTON, D.C. 20005
http://www.monsanto.com

February 2, 2004

Office of Pesticide Programs (OTHER)
Document Processing Center (7504C)
U.S. Environmental Protection Agency
Crystal Mall #2, Room 266A
1921 Jefferson Davis Highway
Arlington, VA 22202-4501

Attention: Mr. James A. Tompkins

Team Leader (25)

Subject: Submission of Final Printed Label

Roundup® Weed & Grass Killer Concentrate Plus

EPA Reg. No. 71995-29

Dear Mr. Tompkins:

Monsanto is submitting for your files, five (5) copies of the final printed label (FPL) for Roundup® Weed & Grass Killer Concentrate Plus, EPA Reg. No. 71995-29, Print Plate Nos. PPN 21208B3-1 (071800) and PPN 21208B3-2 (071700). The final printed label is based on the EPA stamped master label for EPA Reg. No. 71995-29, dated September 24, 2002. Differences are noted below:

- Updated Manufactured for Monsanto Company address, to Marysville, OH 43041, first and last page of Directions for Use FPL pamphlet
- Minor grammar corrections, formatting, updated logo, copyright date and Monsanto Print Plate Nos.
- Elected not to print all text, ie: Omitted Kudzu, Wild Blackberry, and Poison Ivy & Poison Oak, in the When to Apply section, page 4 of EPA stamped label

Page 2 Mr. James Tompkins February 2, 2004

Should you require any additional information or have any questions regarding this submission, please contact Dr. Russ Schneider at Monsanto Washington office (202)783-2866, or me at (314)694-3285, trstan@monsanto.com.

Sincerely,

Tonya R. Staniforth
Registration Specialist

cc: Vickie Walters
Russell Schneider, Ph.D.

File Copy

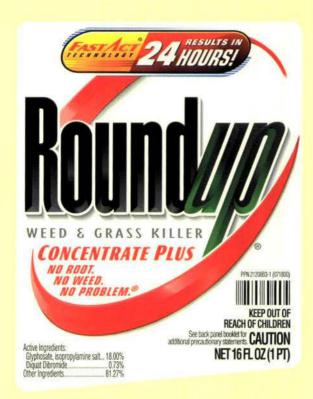
♦EPA	United States Environmental Protection A Washington, DC 20460				Registrati Amendme	296/91
	Ар	olication for	Pesticide	- Section	1	
			2. EPA Pro	duct Manager ames A. Tom		3. Proposed Classification
	any, Lawn & Garden Grass Killer Concer		PM#	25		None Restricted
5. Name and Address of App Monsanto Company 600 13 th St., N.W., Suit Washington, DC 20005	e 660		0.000	mil <mark>ar or identical</mark> No.		and labeling to:
Check if this is a new ad	dress					
		Sec	tion – II			
Notification – Explain I	onse to Agency letter date pelow. al page(s) if necessary. (f		Ag "M	nal printed labels ency letter dated e Too" Application her – Explain bel	on.	
Submission of Final Printe	4 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Sec	tion – III			
Material This Product Will Child-Resistant Packaging Yes* No * Certification must be submitted	Unit Packaging Yes No If "Yes" No	o. per If "Ye	500	aging o. per ontainer	2. Type of Cont Metal Plastic Glass Paper Other (S	
3. Location of Net Contents In		Size(s) Retail Conta	ainer		ation of Label Don Label	
6. Manner in Which Label is A	ffixed to Product	Lithograph Paper glued Stenciled		Other		
		Sec	tion – IV			
Contact Point (Complete ite Name Russell P. S.	ms directly below for iden Schneider, Ph.D.	Title		ed, if necessary, gulatory Affai	Tel	application.) lephone No. (Include Area Code) (202) 383-2866
I acknowledge that any k both under applicable lav	nts I have made on this for nowingly false or misleadi V.	ng statement may b				6. Date Application Received (Stamped)
2. Signature Toruga R. Mtz 4. Typed Name	airforth	3. Title	Registration	<u> </u>		:::: :::::::::::::::::::::::::::
	R. Staniforth		February 2, 2004			

EPA Form 8570-1 (Rev. 3-94) Previous editions are obsolete.

White - EPA File Copy (original)

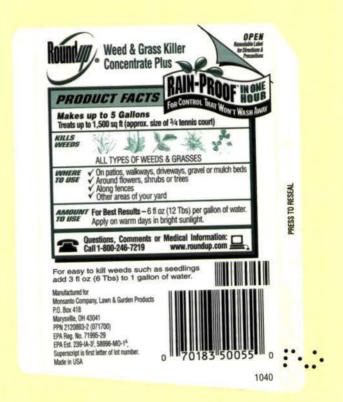
Yellow - Applicant Copy



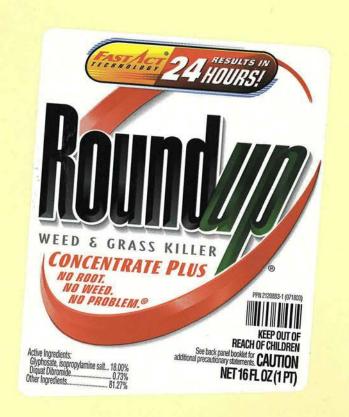


In Accordance with PR Notice Ex-E.
sased on Draft Labeling Dated

In Accordance with PR Notice 52-22



146



In Accordance with PR Notice 83-80 MUT REVIEWED sased on Draft Labeling Dated

9/24/02

MOT KEYLENED An Accordance with PR Notice San 'aling Dated

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

MIXING INSTRUCTIONS

Tank Sprayer (plastic, aluminum, fiberglass, plastic-lined steel or stainless steel). DO NOT MIX, STORE, OR APPLY IN GALVANIZED OR UNLINED STEEL SPRAYER.

- . Add 6 fl oz (12 Tbs) to 1 gallon of water.
- Spot treat.

1 Tablespoon (Tbs) = 3 teaspoons (tsp)

1 fl oz = 2 Tbs

For easy to kill weeds such as seedlings add 3 fl oz (6 Tbs) to 1 gallon of water. Do not apply with a galvanized or unlined steel (except stainless steel) sprayer or through any irrigation system.

To clean sprayer after use, rinse sprayer and all sprayer parts with water 3 times. Spray rinse water on bare soil or gravel. After cleaning, sprayer may be used for other products.

User Safety Recommendations

- Clothing and protective equipment exposed to this product should be washed in detergent and hot water. Such items should be kept and washed separate from other laundry.
 Users should wash hands before eating, drinking, chewing gum, using
- tobacco, or using the toilet.
- Users should remove clothing immediately if product gets inside; then wash thoroughly and put on clean clothing.

How To Apply

- · Spray the weeds or grasses you want to kill until thoroughly wet.
- When spot treating weeds around desirable plants, shield plants from drift with a piece of cardboard or plastic. If desirable plants are accidentally sprayed, rinse off immediately with water.

Important: Do not spray plants or grasses you like - they may die too. Not recommended for spot weed control in lawns since Roundup kills lawn grasses.

Application Restrictions: Do not apply this product in a way that will contact any person or pet, either directly or through drift. Only the person applying this product may be in the area during application.

When To Apply

- Apply when weeds are actively growing.
- For best results, apply during warm, sunny weather (above 60° F) to
- accelerate systemic movement from foliage to roots.

 Apply when air is calm to prevent drift to desirable plants.
- RAIN-PROOF: Rain or watering 1 hour after application will not wash away effectiveness.

Additional Tips

To Kill Vines

- If vines are growing up poles, fences, or tree trunks with mature bark, cut vines to a height of 3 to 4 feet and spray vines thoroughly.

 If vines are climbing shrubs or tree trunks with green bark, cut vines at
- base and treat as directed for stumps or spray regrowth. If spraying regrowth, shield shrubs and green bark from spray drift with a piece of cardboard or plastic.

To Kill Stumps

- Cut living stump close to ground.
- Drive 4 to 5 holes into freshly cut stump.
- Immediately pour undiluted product into holes.

When To Replant

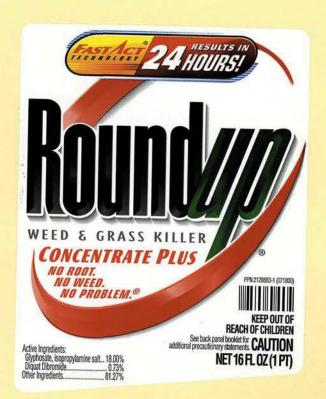
- · All ornamental flowers, trees and shrubs may be planted 2 days after application.
- · Lawn grasses may be planted 7 days after application.

(Continued)

PRESS TO RESEAL



Made in USA



MUT REVIEWED In Accordance with PR Notice 82-2. sased on Draft Labeling Dated 9/24/02

MOT KEYLENEO in Accordance with PR Notice 82--- 1 ing Dated

How It Works

Roundup Concentrate Plus enters plants through foliage and moves systemically to the roots, killing weeds by stopping the production of a substance found in plants. Any product not absorbed by plants will be deactivated after it hits the soil. Weeds usually yellow and wilt within hours with complete kill in 1 to 2 weeks.

Satisfaction Guaranteed or your money back with proof of purchase.

STORAGE AND DISPOSAL

Storage: Store in original container in a safe place away from direct sunlight.

Disposal: Empty Container: Do not reuse container. Put in trash. (Recycle where available.) Partially Full Container: Call your local waste disposal service or 1-800-CLEANUP. Never pour product down any drain.

This product is protected by U.S. Patent Nos. 5,683,958; 5,703,015; 6,063,733; 6,121,199; and 6,121,200. Other patents pending. No license granted under any non-U.S. patent(s).

This is an end-use product. Monsanto does not intend and has not registered it for reformulation or repackaging.

Roundup is a trademark of Monsanto Technology LLC.

NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.

© 2003 MONSANTO COMPANY



Weed & Grass Killer Concentrate Plus

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

* People and pets may enter treated areas after spray has dried.

FIRST AID

Hold eye open and rinse slowly and gently for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then If in continue rinsing.
Call a poison control center, 1-800-246-7219, or doctor for eyes

treatment advice.

Emergency Medical Information:

- · Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

 • You may contact 1-800-246-7219 for emergency medical treatment
- This product is identified as Roundup Weed & Grass Killer Concentrate Plus, EPA Reg. No. 71995-29.

ENVIRONMENTAL HAZARDS: This product is toxic to aquatic invertebrates. Do not apply directly to any body of water. Do not contaminate water when disposing of equipment washwaters.

(See leaflet for Storage and Disposal Information)



Questions, Comments or Medical Information: Call 1-800-246-7219 www.roundup.com

Manufactured for Monsanto Company, Lawn & Garden Products P.O. Box 418, Marysville, OH 43041 EPA Est. 239-IA-3', 58996-MO-1^A EPA Reg. No. 71995-29 Superscript is first letter of lot number. PPN 21208B3-2 (071700)

3



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

SEP 2 4 2002

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Ms. Rhonda M. Mannion Monsanto Company 600 13th Street, N. W., Suite 660 Washington, DC 20005

Dear Ms. Mannion:

Subject: Roundup Weed & Grass Killer Concentrate Plus

EPA Registration No. 71995-29

Your Application Dated June 25, 2002

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act as amended is acceptable. Amended labeling supercedes all previously accepted ones. A stamped copy of labeling is enclosed for your records.

Sincerely,

James A. Tompkins
Product Manager 25
Herbicide Branch
Registration Division (7505C)

[Editorial Notes: Bracketed text [] is for internal use or serves as a 'place holder' for graphics. Parenthetical text () denotes optional wording.]

[Refer to APPENDIX 1 for consolidated list of label claims.]

[Refer to APPENDIX 2 for packaging related claims/instructions]

Roundup Weed & Grass Killer Concentrate Plus

Alternate Brand Name: MON 78307 Herbicide

ACCEPTED

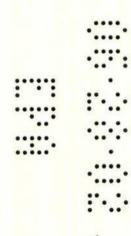
SEP 2 4 2002

Under the Redend Basedhelds, Frankleide, and Badenhelde Ast, as amended, for the positions registered under BPA Reg. No. 71495-29

KEEP OUT OF REACH OF CHILDREN CAUTION

See back panel booklet for additional precautionary statements. (Read precautions and directions on back label.)

NET [xxx]



71995-29

EPA Approved 01/14/2002 Master Label Amendment June 25, 2002

Product Fa	acts					
Treats up t	o xx sq ft (approx. size of XX tennis courts)					
	culating coverage, one gallon treats 300 sq ft and a tennis court					
KILLS	[Illustrate grassy, broadleaf and woody weeds]					
WEEDS	ALL TYPES OF WEEDS & GRASSES					
WHERE TO USE	 On patios, walkways, driveways, gravel or mulch beds Around flowers, shrubs or trees Along fences Other areas in your yard 					
AMOUNT TO USE						
[phone icon	Questions, Comments or Medical Information call (insert contact #) www.roundup.com					

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

MIXING INSTRUCTIONS

[optional tank sprayer illustration]

Tank Sprayer (plastic, aluminum, fiberglass, plastic-lined steel or stainless steel. (Do not (mix, store or) apply with (in) a galvanized or unlined steel sprayer.)

- (For tough established weeds / For best results,) add 6 fl oz (12 Tbs) to 1 gallon of water.
- (For easy to kill weeds such as small seedlings, add 3 fl oz (6 Tbs) to 1 gallon of water.)
- (Spot treat)

1 Tablespoon (Tbs) = 3 teaspoons (tsp)

1 fl oz = 2 Tbs

Do not (mix, store or) apply with (in) a galvanized or unlined steel (except stainless steel) sprayer, or through any irrigation system.

To clean sprayer after use, rinse sprayer and all sprayer parts with water 3 times. Spray rinse water on bare soil or gravel. After cleaning, sprayer may be used for other products.

USER SAFETY RECOMMENDATIONS [optional illustration]

- Clothing and protective equipment exposed to this product should be washed in detergent and hot water. Such items should be kept and washed separate from other laundry.
- Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Users should remove clothing immediately if product gets inside; then wash thoroughly and put on clean clothing.

HOW TO APPLY [optional illustration]

- Spray the weeds or grasses you want to kill until thoroughly wet.
- When spot treating weeds around desirable plants, shield plants from drift with a sheet (piece) of cardboard or plastic. If desirable plants are accidentally sprayed, rinse off immediately with water.

IMPORTANT: Do not spray plants or grasses you like - they may die too. Not recommended for spot weed control in lawns since Roundup [or insert brand name] kills lawn grasses.

Application Restrictions: Do not apply this product in a way that will contact any person or pet, either directly or through drift. Only the person applying this product may be in the area during application.

WHEN TO APPLY [optional illustration]

- Use anytime weeds and grasses are actively growing. (Apply when weeds are actively growing.)
- For best results, apply during warm, sunny weather (above 60° F) to accelerate systemic movement from foliage to roots.
- Apply when air is calm to prevent drift to desirable plants.
- [insert brand name] is Rainproof in 2 hours (30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes)
- [Alternate text] (RAIN-PROOF:) Rain or watering 2 hours (30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes) after application will not wash away effectiveness.
- (Apply when weeds are small and before seeds form. Established (Hard to kill) weeds may require a repeat application.)

ADDITIONAL TIPS [optional illustration]

To Kill Vines

 If vines are growing up poles, fences, or tree trunks with mature bark, cut vines to a height of 3 to 4 feet and spray vines thoroughly.

 If vines are climbing shrubs or tree trunks with green bark, cut vines at base and treat as directed for stumps or spray regrowth. If spraying regrowth, shield shrubs and green bark from spray drift with a sheet (piece) of cardboard or plastic.

To Kill Stumps

Cut living stump close to ground.

Drive (drill) 4 to 5 holes into freshly cut stump.

Immediately pour undiluted product into holes.

Kudzu

For best results, apply in mid to late summer when vines are mature and actively growing.

Wild Blackberry

Spray anytime plants are actively growing. Dead canes should be cut down and removed. Reapplication is often required to kill deep roots.

Poison Ivy & Poison Oak

Contact with these plants anytime of the year can cause an allergic reaction. Spray anytime plants are actively growing, but at least 4 weeks before the first killing frost in the fall. Reapply, if new growth appears. Handle dead plants with rubber gloves. Dispose of plants and rubber gloves in tightly sealed garbage bags.

WHEN TO REPLANT [optional illustration]

- All ornamental flowers, trees and shrubs may be planted 2 days after application.
- Lawn grasses may be planted 7 days after application.

HOW IT WORKS [optional illustration]

Roundup [insert brand name] enters plants through foliage and moves systemically to the roots, killing weeds by stopping the production of a substance found in plants. Any product (Roundup) [insert brand name] not absorbed by plants will be deactivated after it hits the soil. Weeds usually yellow and wilt within hours with complete kill in 1 to 2 weeks.

[optional section]

KILLS ALL TYPES OF WEEDS & GRASSES [optional illustration]

Weeds (including): Artichoke thistle, beggarweed, black medic, blue mustard, blue toadflax, brassbuttons, broadleaf plantain, burclover, buttercup, Canada thistle, cattail, chickweed, cocklebur, common groundsel, common mullein, common plantain, common ragweed, creeping beggarweed, creeping-charlie, curly dock, dandelion, dog fennel, evening primrose, false dandelion, fiddleneck, field bindweed (wild morningglory), field pennycress, filaree, Florida pusley, garden spurge, henbit, horsenettle, horseradish, horseweed/ marestail, iceplant, knapweed, knotweed, lambsquarters, lantana, little bittercress, London rocket, mallow, mayweed, milkweed, mouseear chickweed, narrowleaf (buckhorn) plantain, nightshade (silverleaf), oldenlandia, oxalis, Pennsylvania smartweed, pennywort, poison hemlock, prickly lettuce, primrose, prostrate spurge, puncturevine, ragweed, red clover, redroot pigweed, shepherdspurse, smooth catsear, smooth pigweed, sowthistle, spotted spurge, tansy ragwort, tansymustard, teaweed, trumpetcreeper, tumble mustard, Virginia creeper, white clover, whitetop, wild barley, wild mustard, wild oats, wild sweet potato, yellow starthistle, and other broadleaf weeds

Grasses (including): Annual bluegrass, annual ryegrass, bahiagrass, barnyardgrass, bentgrass, Bermudagrass, bromegrass, Cogongrass, crabgrass, creeping bentgrass, dallisgrass, fall panicum, fescue, field sandbur, foxtail, goosegrass, guineagrass, Johnsongrass, Kentucky bluegrass, kikuyugrass, lovegrass, maidencane, nimblewill, nutsedge, orchardgrass, pampas grass, perennial ryegrass, purple nutsedge, quackgrass, sandspur, smooth bromegrass, sprangletop, St. Augustinegrass, tall fescue, Texas panicum, Timothy, torpedograss, vaseygrass, witchgrass, yellow nutgrass, zoysia and other grassy weeds

Brush (Tough Weeds), Unwanted Trees, Shrubs & Vines (including):
Alder, ash, (quacking) aspen, blackberry, bluegum eucalyptus, broom (French, Scotch), buckwheat, ceanothus, chamise, cherry, coyote brush, dewberry, elderberry, elm, eucalyptus, giant reed, hawthorn, hazel, honeysuckle, kudzu, locust, madrone, maple, oak, persimmon, poison oak, poison ivy, poplar, raspberry, sage, sagebrush, salmonberry, saltcedar, sassafras, sumac, sweetgum, tan oak, thimbleberry, tree tobacco, wild rose (multiflora) willow and other tough weeds

STORAGE AND DISPOSAL [trash can illustration]

STORAGE: Store in original container in a safe place away from direct sunlight.

DISPOSAL: Empty Container: Do not reuse container. Put in trash. (Recycle where available.) Partially Full Container: Call your local waste disposal service or 1-800-CLEANUP. Never pour product down any drain.

HOW TO REFILL ROUNDUP READY-TO-USE CONTAINERS

24 fl oz Roundup Weed & Grass Killer₁ Ready-To-Use:

To empty container add 2 fl oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.

- ½ Gallon Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 5 fl oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.
- Gallon Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 10 oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.
- 1.33 Gallon Roundup PNS (II):
 To empty container add 13 fl oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.
- 6L Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 16 fl oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.
- 2 Gallon Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 20 fl oz of Roundup Concentrate Plus [or alternate brand name] then fill with water very slowly to avoid foaming.

PRECAUTIONARY STATEMENTS [optional illustration]

[re-entry icon] People and pets may enter treated area after spray has dried.

HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION:

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

	FIRST AID
If in eyes	 Hold eye open and rinse slowly and gently for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. Call a poison control center (insert contact telphone #) or doctor for treatment advice.
	Emergency Medical Information
controlYou ma	re product container or label with you when calling a poison center or doctor, or going for treatment. By contact (insert contact telephone #) for emergency medical ent information.
• This pro	oduct is identified as [insert brand name], Reg. No. 71995-29

ENVIRONMENTAL HAZARDS: This product is toxic to aquatic invertebrates. Do not apply directly to any body of water. Do not contaminate water when disposing of equipment washwaters.

NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.

This product is protected by U.S. Patents No. 5,683,958 and No. 5,703,015 and No. 6,063,733 and No. 6,121,199 and No. 6,121,200. Other patents pending. No license granted under any non-U.S. patent(s).

This is an end-use product. Monsanto does not intend and has not registered if for reformulation or repackaging.

[phone icon] Questions, Comments or Medical Information call insert contact # www.roundup.com

Roundup is a trademark of Monsanto Technology LLC

©[___] MONSANTO COMPANY

Manufactured for
Monsanto Company, Lawn & Garden Products
P.O. Box 418
Columbus, OH 43216-0418
Form [___]
EPA Reg. No. 71995-29
EPA Est. 239-IA-3^I, 58996-MO-1^A
Superscript is first letter of lot number
Made in USA

APPENDIX 1 - Consolidated List of Label Claims

[Ordered alphabetically]

- · Absorbed into both broadleaf and grassy weeds
- · Absorbs on contact, starts working immediately
- Approved for most (many) lawn and garden uses
- Before [weed graphics] / After [weed graphics]
- · Begins absorbing on contact
- Can be used for habitat restoration, controlling exotic vegetation, and for site preparation of wildlife food plots
- Can reseed or sod lawns 7 days after treatment
- · Concentrated for extra value
- Concentrated formula
- (Contains) FastAct[™] (technology)
- Dead Weeds Guaranteed (or Your Money Back)
- · Dead (weeds) in a day
- · Does not have soil activity
- Economical
- · Economical concentrate formula
- Easy to apply with a tank or (hand held) trigger sprayer
- Even if it rains Roundup [or insert brand name] won't lose its effectiveness
- Exclusive Roundup [or insert brand name] formula
- Experience the Roundup Advantage (peel back this panel for detail) (see details inside / underneath this booklet) (see details on back panel)
- FastAct™ (Technology)
- Fast-acting formula
- Fast-acting formula works twice as fast (50% faster)
- Fast-acting formula absorbs to root more quickly
- For control that doesn't (won't) wash away
- For general weed control kills weeds and grasses in 1 to 2 weeks roots and all
- For weeds that are dead in a (one) day
- · Guaranteed same effective results even if it rains within hours
- Guaranteed effective: Kills over 200 types of weeds and grasses, roots and all, with just one application
- Guaranteed (we guarantee it)
- Ideal for killing unwanted weeds and grasses throughout your yard. Use along fences; in cracks of walks, drives and patios; and around flower beds, trees and shrubs
- · Improved extra strength formula
- Improved formula, completely kills even the toughest weeds and grasses
- Keeps driveways, walkways, landscaping beds, and flower gardens weed-free all season long
- · Kills almost all (annual and perennial) weeds, grasses and other unwanted plants
- Kills existing weeds only, no residual activity in soil

- Kills more weeds in more places.
- Kills over 100 weeds
- · Kills (to) the root
- Kills (the toughest weeds and grasses) the root so weeds (they) don't come back
- Kills the root so weeds don't come back
- Kills the roots of (both) broadleaf and grassy weeds
- · Kills the weed you see and the root you don't
- Kills unwanted weeds and grasses, roots and all
- Kills weeds in flowerbeds, around trees, shrubs and fences, and on patios, paths, sidewalks, sidewalk cracks, walkways, driveways, and other areas in your yard
- · Kills weeds, roots and all
- · Lawns and gardens can be reseeded or planted soon after treatment
- Make only what you need
- Multipurpose grass and broadleaf weed control
- NEW!
- Next day (this weekend) results: Begins killing on contact, visible results in 24 hours
- No odor
- No root. No weed. No problem.
- · NOW!
- Now a shorter wait for replanting!
- · Once it enters the plant, it won't wash off
- One application kills over 200 types of weeds and grasses, roots and all (maximum effectiveness)
- Only Roundup's effectiveness (exclusive formula) won't be washed away by rain or watering 2 hours (30, 45, 60, 90 minutes) after treatment
- Only Roundup's effectiveness (formula) won't be washed away by rain or watering 2 hours (1 hour)(30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes) after treatment
- Proven (trusted) performance: Only Roundup [or insert brand name] works the first time, every time – and has for 25 years
- Provides maximum control: Kills weeds to the root so they don't ever come back
- Quick kill formula (the toughest)
- Quick-action formula lets you see results 50% faster (two times)
- Ornamental gardens can be reseeded or planted 1 day after treatment
- RainFast in hours (30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes)- enters the plant on contact
- RAIN-PROOF™ (Mistake Proof)
- RAIN-PROOF™ in two hours (30, 45, 60, or 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes) (for control that won't wash away)
- Roundup [or insert brand name] can be used (almost) anywhere weeds and grasses grow, including patios, walkways, and driveways; along fences; in landscaping beds; or around flowers, shrubs and trees
- (Roundup) [or insert brand name] Kills the weed you see and the root others leave behind

- Roundup's exclusive (patented) formula (technology) kills to the root so weeds don't come back
- Roundup [or insert brand name] kills weeds and grasses in Patios Driveways Sidewalks – Ornamental Gardens and other non-lawn areas
- · Satisfaction guaranteed or we will gladly refund purchase price
- Satisfaction guaranteed or your money back with proof of purchase
- (See) results in hours
- . (See) results in 24 hours
- · Speeds absorption to the root for complete kill
- Spray weeds (Use) in flowerbeds, around trees, shrubs and around fences, and on patios, paths, sidewalks, sidewalk cracks, walkways, driveways, and other areas in your yard
- · Starts to kill in hours
- Starts working immediately (in hours)
- Stronger
- · Transorb technology speeds Roundup to the root to kill even tough weeds
- Twice as fast
- · (Use) For Brush Control
- (Use) For General Weed Control: Use along fences, paths, patios, sidewalks and driveways, around trees, shrubs, ornamental plantings, flowerbeds, and buildings, and in brick and gravel walkways.
- Use to trim and edge landscape areas.
- (Use) For Spot Spraying: Use in and around flowerbeds, ornamental trees, shrubs, fences, driveways and walkways
- (Use) For Stumps
- (Use in) Apply with a Big Shot™ Multi-Purpose Sprayer or other tank sprayer, or a (hand held) trigger sprayer
- Visible effects are gradual wilting and yellowing advancing to complete browning and root destruction.
- · Water based formula
- Won't wash off (away)
- · Works first time, every time
- · Works in hours
- Works overnight
- · Works only when absorbed by the foliage of weeds

[Promotional options]

- Save up to \$[x] on (your) next purchase
- [X]% Free (More)
- Free weed guide inside
- Free [] with this purchase of Roundup concentrate quart
 FREE REFILL
- FREE SAMPLE
- SAMPLE NOT FOR SALE
- Value size

APPENDIX 2 - Packaging Related Claims

NET xx fl oz (qt or gal) (xx mL or L) 6 fl oz (177 mL) 6.5 fl oz (192 mL) 8 fl oz (237 mL) 13 oz (384 mL) 16 fl oz (1 pt) (473 mL) 32 fl oz (1 qt) 946 mL) 40 fl oz (1.18 L) 53.7 fl oz (0.42 gal) (1.5 L) 64 fl oz (1/2 gal) (1.89 L) 128 fl oz (1 gal) (3.79 L)

[corner flap]

OPEN

Resealable Label for Directions & Precautions

PULL HERE TO OPEN LABEL

PEEL HERE

PEEL OPEN FOR USE DIRECTIONS AND FURTHER INFORMATION

PRESS TO RESEAL

[Net contents] Makes up to 'X' gallons

Makes between 'X' - 'Y' gallons

Mix with water to make 'X' gallons of spray solution

Covers up to 'Z' sq ft

Mix with water to cover up to 'Z' sq ft

[$X = net contents \div 3$] [$Y = net contents \div 6$] [Z = X * 300]

[Pint]

Makes up to 5 gallons

Makes between 2½ - 5 gallons

Mix with water to make 5 gallons of spray solution

Covers up to 1,500 sq ft

Mix with water to cover up to 1,500 sq ft

[Quart]

Makes up to 10 gallons

Makes between 5 - 10 gallons

Mix with water to make 10 gallons of spray solution

Covers up to 3,000 sq ft

Mix with water to cover up to 3,000 sq ft

[0.42 Gallon] Makes up to 18 gallons

Makes between 9 – 18 gallons
Mix with water to make 18 gallons of spray solution
Covers up to 5,400 sq ft
Mix with water to cover up to 5,400 sq ft

[Half Gallon] Makes up to 21 gallons

Makes between 10 - 21 gallons

Mix with water to make 21 gallons of spray solution

Covers up to 6,300 sq ft

Mix with water to cover up to 6,300 sq ft

[Gallon] Makes up to 42 gallons

Makes between 21 - 42 gallons

Mix with water to make 42 gallons of spray solution

Covers up to 12,600 sq ft

Mix with water to cover up to 12,600 sq ft

New! Larger size, covers up to ['Z'] sq ft

With (the convenient) measuring cup, mixing MON 78307 (controlling weeds around your home) has never been easier

With (the convenient) measuring cup, controlling weeds all around your home has never been this fast and easy

1. 1	□ 140 □ ••		FIQ.4	46.	۰	219		0 16 1	2 7 !	012
6. No		2, 294	BUST	MARAGER		P) (A)		T		
	J		-				he.	L 7001	16710 8	PVA
1 24		11. ACT	QM 1	776				1.	•••	·i.
91	24/02 AWP	Ren	re	martin La			£338	12. 3470	-	
. 8					300	3		T	Ĭ.	ï
ייניי	AEVIEW TYPE	COOL		BRUTAMBIE	-	NE A	COM.		0 4 4 A 6 4 6 5	- COME
1	A seviewasicity read	li 1	1	*					1	1
1		11		20					1	
1		1.1					· .	1	i	
6				500	- 1		-	1		1
	************	11	4					1	1	1.
*		11	4	1.00	V	KW	NAC	019	214	013
9		11	4		-,				1	Fi
H		11	1				8 7	1	1	-1
- 1		11		- 4 can			•			Ti
1	200 80 AMEN INSECTICIOS	11						1	1	
K	EFF. 6.4.7 - 44 014106			2.4				1	1	1
L	EFF. 6467	11					-		1	
M	CEE 0 **** ** ** *** *** *** *** *** ***	1.1		٠,	*				1	Ti
N		11		* .				1	11	Ti
9	4 6 11 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6	11		*	1			1	1	1
,	CEE SHAMEN ENVIORS .	11	-	* •			Selve	1	1	
Q	TO STORE SEASON SEASON	1.1		•		9		-1		
R	EEE GRAND ENVIORE	11	1	2 *		10		1	1	1
8		1.1						1	1	
٢		1 1				14		1	1	Ti
ave	MANAGER SIGNATURE .		7	TPE 00 ALEPO	4			-	-	C0 04

EPA Form 6579-13 (3-76)

Please read instructions on reverse before completing form. Form Approved. OMB No. 2070-0060. Approval Expires 2-28-95 **OPP Identifier Number** Registration United States **€ EPA Environmental Protection Agency** 295236 Amendment Washington, DC 20460 Other Application for Pesticide – Section I 1. Company/Product Number 2. EPA Product Manager 3. Proposed Classification Monsanto Co./ EPA Registration 71995-29 James A. Tompkins 4. Company/Product (Name) **PM#** Restricted Monsanto Co./ Roundup Weed & Grass Killer Concentrate 25 Plus 6.Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my 5. Name and Address of Applicant (Include ZIP Code) Monsanto Company product is similar or identical in composition and labeling to: 600 13th St., N.W., Suite 660 EPA Reg. No. Washington, DC 20005 Product Name Check if this is a new address Section - II Final printed labels in response to Amendment - Explain below. Agency letter dated Resubmission in response to Agency letter dated "Me Too" Application. Other - Explain below. Notification - Explain below. Explanation: Use additional page(s) if necessary. (For section I and Section II.) Submission of Master Label Amendment for EPA Registration No. 71995-29 Section - III 1. Material This Product Will Be Packaged In: 2. Type of Container Unit Packaging Water Soluble Packaging Child-Resistant Packaging Metal Yes Yes* Yes Plastic No No No Glass If "Yes" If "Yes" No. per No. per * Certification must Paper Unit Packaging wgt. Container Package wgt. Container be submitted Other (Specify) 5. Location of Label Directions Location of Net Contents Information 4. Size(s) Retail Container On Label Label Container On Labeling accompanying product 6. Manner in Which Label is Affixed to Product Lithograph Other Paper glued Stenciled Section - IV 1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.) Telephone No. (Include Area Code) Name Marsha C. Gray, Ph.D. Registration Manager (202) 383-2878 Certification 6. Date Application I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. Received

EPA Form 8570-1 (Rev. 3-94) Previous editions are obsolete.

Rhonda M. Mannion

both under applicable law.

2. Signature

4. Typed Name

I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or

3. Title

5. Date

Registration Manager

June 25, 2002

White - EPA File Copy (original)

elfow * Applicant Copy

(Stamped)

June 25, 2002

MONSANTO COMPANY

600 13TH STREET, N.W.
SUITE 660
WASHINGTON, D.C. 20005
http://www.monsanto.com

Office of Pesticide Programs (AMEND)
Document Processing Center (7504C)
U.S. Environmental Protection Agency
Crystal Mall #2, Room 266A
1921 Jefferson Davis Highway
Arlington, VA 22202

Attention: Mr. James A. Tompkins

Team Leader (25)

Subject: Roundup Weed & Grass Killer Concentrate Plus

(EPA Reg. No. 71995-29)

Submission of Master Label Amendment

Dear Mr. Tompkins,

Monsanto is submitting (5) copies of the revised Roundup Weed & Grass Killer Concentrate Plus master label, (EPA Reg. No. 71995-29). Revisions to the label text are highlighted, and based on the current approved label for MON 78307 dated January 14, 2002.

The following documents are enclosed with this letter:

- Application for Pesticide (form 8570-1)
- Five (5) copies of the revised master label unmarked
- One (1) copy of the revised master label marked highlighting revisions to the current approved label

Should you require any additional information or have any questions regarding this label amendment, please contact Dr. Marsha Gray at our Washington office (202)783-2460 or me directly at (314)694-8785 rmmann@Monsanto.com.

Sincerely,

Rhonda M. Mannion

cc: V. Walters/EPA

M. Gray/DC office

D. Fee-White/A2NC

B. Kliewer/C3ND

File Copy



MONSANTO COMPANY

600 13TH STREET, N.W. SUITE 660 WASHINGTON, D.C. 20005 http://www.monsanto.com

16 July 2002

Hand Delivered

Document Processing Center (OTHER)
Office of Pesticide Programs
U.S. Environmental Protection Agency
Room 266A, Crystal Mall 2,
1921 Jefferson Davis Highway
Arlington, VA 22202-4501

Attention:

Mr. Jim Tompkins (7505C)

Product Manager (Team 25)

Subject:

Roundup® Weed & Grass Killer Concentrate Plus (EPA Reg. No. 71995-29).

Submission of Final Printed Labels.

Dear Mr. Tompkins:

Monsanto is submitting three (3) copies of the Roundup® Weed & Grass Killer Concentrate Plus (print plate no. 21208A2-1 and 21208A2-2) final printed label. The label is based upon EPA stamped master label dated 14 January 2002 and is identical to the previous final printed label (print plate no. 21108Z1-1 and 21108Z1-2) with the following exceptions:

The efficacy claim "Results in 1 day" has been changed to "Results in 24 hours".

The brand name and registration number were added to the First Aid Box.

Should you have any questions, please contact Dr. Marsha Gray at our Washington office (202) 783-2460 or me directly at (314) 694-8785 or rmmann@monsanto.com.

Sincerely, Runda M. Man

Rhonda M. Mannion Registration Manager

cc: Marsha Gray / DC Office T. Schafer / A2ND File copy

Enclosure

EPA Environment	United States Ital Protection Agency hington, DC 20460	Registrati Amendme Other	
A	oplication for Pesticide -	Section I	
Company/Product Number EPA Reg. No. 71995-29	2. EPA Produ	ct Manager Jim Tompkins	3. Proposed Classification
Company/Product (Name) Roundup Weed & Grass Killer Concentration		25	None Restricted
5. Name and Address of Applicant (Include ZIP Code Monsanto Company, Lawn & Garden Proc 600 13 th St., N.W., Suite 660 Washington, DC 20005		ilar or identical in composition	h FIFRA Section 3(c)(3) (b)(i), my and labeling to:
Check it this is a new address	Section - II		
Resubmission in response to Agency letter data Notification – Explain below. Explanation: Use additional page(s) if necessary. Submission of final printed label.	Other	Foo" Application. r – Explain below.	
	Section - III		
Material This Product Will Be Packaged In: Child-Resistant Packaging Yes* No No No	Water Soluble Packagi Yes No	ing 2. Type of Cont Metal Plastic Glass	ainer
* Certification must be submitted	No. per If "Yes" No. package wgt. Cont	tainer	Specify) Plant Cells
ocation of Net Contents Information Label Container	4. Size(s) Retail Container Various	5. Location of Label D On Label On Labeling according	pirections product
6. Manner in Which Label is Affixed to Product	Lithograph Paper glued	Other	

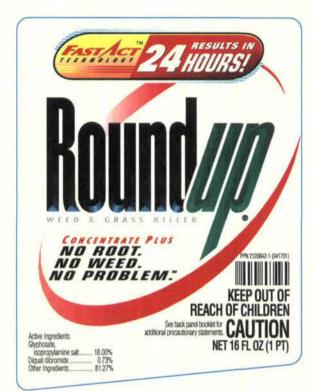
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.) Name Telephone No. (Include Area Code) Registration Manager (202) 783-2460 Dr. Marsha C. Gray Certification 6. Date Application I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete Received I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or (Stamped) both under applicable law. 2. Signature Phonds M. Man Registration Manager 4. Typed Name 5. Date Rhonda M. Mannion 314/694-8785

EPA Form 8570-1 (Rev. 3-94) Previous editions are obsolete.

Yellow • Applicant Copy

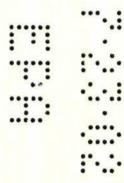
White - EPA File Copy (original)

In Accordance with PR Notice 82-2. Eased on Draft Labeling Dates //14/0~



041701

file: 30220/front/art
folder: 30220/syngenta/fast act
created by customer
alt: 7-15-02 es
colors: black, grey 430, green 362, blue 2945, red 485, pantone yellow
bar code: itf var. -58 mics, 25%



Page 1

Page 2

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

MIXING INSTRUCTIONS

Tank Sprayer (plastic, aluminum, fiberglass, plastic-lined steel or stainless steel). DO NOT MIX, STORE, OR APPLY IN GALVANIZED OR UNLINED STEEL SPRAYER.

- Add 6 fl oz (12 Tbs) to 1 gallon of water.
 Spot treat.

1 Tablespoon (Tbs) = 3 teaspoons (tsp)

1 fl oz = 2 Tbs

For easy to kill weeds such as seedlings add 3 fl oz (6 Tbs) to 1 gallon of water. Do not apply with a galvanized or unlined steel (except stainless steel) sprayer or through any irrigation system.

To clean sprayer after use, rinse sprayer and all sprayer parts with water 3 times. Spray rinse water on bare soil or gravel. After cleaning, sprayer may be used for other products.

User Safety Recommendations

- . Clothing and protective equipment exposed to this product should be washed in detergent and hot water. Such items should be kept and washed separate from other laundry.
- Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Users should remove clothing immediately if product gets inside; then wash thoroughly and put on clean clothing.

How To Apply

- · Spray the weeds or grasses you want to kill until thoroughly wet.
- . When spot treating weeds around desirable plants, shield plants from drift with a piece of cardboard or plastic. If desirable plants are accidentally sprayed, rinse off immediately with water.

Important: Do not spray plants or grasses you like - they may die too. Not recommended for spot weed control in lawns since Roundup kills lawn grasses.

Application Restrictions: Do not apply this product in a way that will contact any person or pet, either directly or through drift. Only the person applying this product may be in the area during application.

When To Apply

- Apply when weeds are actively growing.
- For best results, apply during warm, sunny weather (above 60° F) to accelerate systemic movement from foliage to roots.
- Apply when air is calm to prevent drift to desirable plants.
- RAIN-PROOF: Rain or watering 2 hours after application will not wash away effectiveness.

Additional Tips

To Kill Vines

- If vines are growing up poles, fences, or tree trunks with mature bark, cut vines to a height of 3 to 4 feet and spray vines thoroughly.
- If vines are climbing shrubs or tree trunks with green bark, cut vines at base and treat as directed for stumps or spray regrowth. If spraying regrowth, shield shrubs and green bark from spray drift with a piece of cardboard or plastic.

To Kill Stumps

- Cut living stump close to ground.
 Drive 4 to 5 holes into freshly cut stump. · Immediately pour undiluted product into holes.

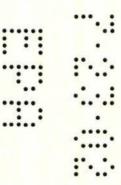
When To Replant

- · All ornamental flowers, trees and shrubs may be planted 2 days after application.
- Lawn grasses may be planted 7 days after application.

(Continued)

File 8554/Book 1&2/Art Folder: 8554/Monsanto/RU weed&grass color: Black (White Copy In Black Box)

Created: 7-8-02 es alt: 7-11-02 bt



Page 3

Front Cover

How It Works

Roundup Concentrate Plus enters plants through foliage and moves systemically to the roots, killing weeds by stopping the production of a substance found in plants. Any product not absorbed by plants will be deactivated after it hits the soil. Weeds usually yellow and wilt within hours with complete kill in 1 to 2 weeks.

Satisfaction Guaranteed or your money back with proof of purchase.

STORAGE AND DISPOSAL

Storage: Store in original container in a safe place. Disposal: Empty Container: Do not reuse container. Put in trash. (Recycle where available.) Partially Full Container: Call your local waste disposal service or 1-800-CLEANUP. Never pour product down any drain.

This product is protected by U.S. Patents No. 5,683,968 and No. 5,703,015 and No. 6,063,733 and No. 6,121,199 and No. 6 121,200

Other patents pending. No license granted under any non-U.S. pantent(s).

This is an end-use product. Monsanto does not intend and has not registered it for reformulation or repackaging.

Roundup is a trademark of Monsanto Technology LLC.

NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.

© 2002 MONSANTO COMPANY



041601

3

103

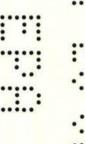
File 8554/Book 3&F/Art Folder: 8554/Monsanto/RU weed&grass

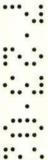
colors: black, pms 3425 green

bar codes: ITF, 25%, -39 mics / UPCA, 80%, -39 mics

Created: 7-8-02 es alt: 7-11-02 bt

P.O. 50X 416 Marysville, OH 43041 PPN 21208A2-2 (041601) EPA Reg., No. 71995-29 EPA Est. 239-IA-3', 58996-MO-1^A Supersorigt is first letter of lot number Made in USA











Weed a Glass Concentrate Plus Weed & Grass Killer

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

People and pets may enter treated areas after spray has dried.

FIRST AID

- If in eyes

 Hold eye open and rinse slowly and gently for 15-20 minutes.

 Remove contact lenses, if present, after first 5 minutes, then continue rinsing.

 Call a poison control center 1-800-246-7219 or doctor for
 - treatment advice.

Emergency Medical Information:

- Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
 You may contact 1-800-246-7219 for emergency medical treatment.
- information.
- This product is identified as Roundup Weed & Grass Killer Concentrate Plus, EPA Reg. No. 71995-29.

ENVIRONMENTAL HAZARDS: This product is toxic to aquatic invertebrates. Do not apply directly to any body of water. Do not contaminate water when disposing of equipment washwaters.

(See leaflet for Storage and Disposal Information)

Superscript is first letter of lot number



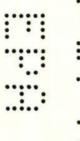
Questions, Comments or Medical Information: Call 1-800-246-7219 www.roundup.com

Manufactured for Monsanto Company, Lawn & Garden Products P.O. Box 418, Marysville, OH 43041 EPA Est. 239-IA-3', 58996-MO-1^A EPA Reg. No. 71995-29

PPN 21208A2-2 (041601) Made in USA

File 30199/base/art Folder: 30199/Monsanto/RU weed & grass color: Black bar code: itf, 25%, -58

Created: 7-8-02 es alt: 7-10-02 bm





MAY 1 4 2002

Ms. Rhonda M. Mannion Registration Manager MONSANTO COMPANY 600 13th Street N.W. Suite 660 Washington, D.C. 20005

Dear Ms. Mannion:

This is in response to your request dated March 27, 2002 to change the primary brand name for **EPA Registration 71995-29** from MON 78307 Herbicide to:

ROUNDUP® WEED & GRASS KILLER CONCENTRATE PLUS

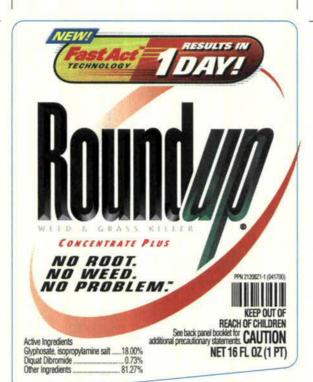
Your request for the name change is accepted and the change will be made to the Agency's records. All future correspondence on this product should reference the new name.

Sincerely yours,

Sherada D. Hobgood

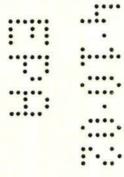
Notifications Review Coordinator Registration Division (7505C)

Please read instructions on re	everse before completing form.	Form	Approved. OMB No. 207	0-0060. Approval Expires 2-28-95	
⊕ EPA	United Sta Environmental Prot Washington, De	ection Agency	Registrat Amendme		
	Application	on for Pesticide - S	ection I		
Company/Product Number 71995-29		2. EPA Product		3. Proposed Classification	
Company/Product (Name) MON 78307 Herbicide		PM #	25	None Restricted	
5. Name and Address of Appl		6.Expedited R		th FIFRA Section 3(c)(3) (b)(i), my	
Monsanto Company 600 13 th St., N.W., Sui Washington, DC 2000	te 660		or identical in COMPLEAT	16N labeling to:	
Check if this is a new add	dress	Product Name	MAY 1 4	2002	
		Section - II			
Amendment – Explain Resubmission in respo	onse to Agency letter dated	Final pri Agency "Me Too	nted labels in response to letter dated 14 January 2 " Application. Explain below.		
Submission of final printed lat This notification is consistent labeling or the confidential sta to EPA. I further understand		mary brand name. 10 and EPA regulations at 40 understand that it is a violation and with the terms of PR Notice	of 18 U.S.C Sec. 1001 to 98-10 and 40 CFR 152.4	er changes have been made to the b willfully make any false statement 6, this product may be in violation of	
		Section - III			
Material This Product Will	Be Packaged In:				
Child-Resistant Packaging Yes* No	Unit Packaging Yes No	Water Soluble Packaging Yes No	2. Type of Cor Metal Plastic Glass	tainer	
* Certification must be submitted	If "Yes" No. per Unit Packaging wgt. Container	If "Yes" No. pe Package wgt. Contain	ner Haper	Specify) Plant Cells	
ocation of Net Contents In Label Contai		etail Container Various	5. Location of Label On Label		
6. Manner in Which Label is A	ffixed to Product Lithog Paper Stenci	glued led	Other		
		Section - IV			
	ems directly below for identification of			A CONTRACTOR OF THE PROPERTY O	
Dr. Marsha C. Gray		Registration N		(202) 783-2460	
I acknowledge that any k both under applicable lav	Certificants I have made on this form and all snowingly false or misleading statems.	attachments thereto are true, a ent may be punishable by fine		6. Bate Application Received (Stamped)	
2. Signature Rlinde M. Wa	inn	3. Title Registration Manage	Registration Manager		
4. Typed Name Rhonda M. Mannion 3	14/ 694-8785	5. Date		·:::·	
	Provious editions are checlete	27 March 2002	ita EDA Ella Convicaria	ingl) Velley, Applicant Conv.	



041700

File 29390/front label Created: 2-1-02 bm Folder: 29390/Monsanto/21208Z1-1 alt: 3-04-02 cn color: black, pms 362, pms 430, pms 485, pms 2945, pan yellow bar code: itf, 25%, -58



Page 1

Page 2

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

MIXING INSTRUCTIONS

Tank Sprayer (plastic, aluminum, fiberglass, plastic-fined steel or stainless steel) Do not mix, store, or apply in a galvanized or unlined steel sprayer.

- Add 6 fl oz (12 Tbs) to 1 gallon of water.
- Spot treat.

1 Tablespoon (Tbs) = 3 teaspoons (tsp)

1 floz = 2 Tbs

For easy to kill weeds such as seedlings add 3 fl oz (6 Tbs) to 1 gallon of water. To clean sprayer after use, rinse sprayer and all sprayer parts with water 3 times. Spray rinse water on bare soil or gravel. After cleaning, sprayer may be used for other products.

User Safety Recommendation

- Clothing and protective equipment exposed to this product should be washed in detergent and hot water. Such items should be kept and washed separate from other laundry.
- Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Users should remove clothing immediately if product gets inside; then wash thoroughly and put on clean clothing.

How To Apply

- Spray the weeds or grasses you want to kill until thoroughly wet.
- When spot treating weeds around desirable plants, shield plants from drift with a piece of cardboard or plastic. If desirable plants are accidentally sprayed, rinse off immediately with water.

Important: Do not spray plants or grasses you like - they may die too. Not recommended for spot weed control in lawns since Roundup kills lawn grasses.

Application Restrictions: Do not apply this product in a way that will contact any person or pet, either directly or through drift. Only the person applying this product may be in the area during application.

When To Apply

- Apply when weeds are actively growing. Use anytime weeds and grasses are actively growing.
- For best results, apply during warm, sunny weather (above 60°F) to accelerate systemic movement from foliage to roots.
- Apply when air is calm to prevent drift to desirable plants.
- RÁIN-PROOF: Rain or watering 2 hours after application will not wash away effectiveness.

Additional Tips

To Kill Vines

- If vines are growing up poles, fences, or tree trunks with mature bark, cut vines to a height of 3 to 4 ft and spray vines thoroughly.
- If vines are climbing shrubs, or tree trunks with green bark, cut vines at base and treat as directed for sturnps or spray regrowth. If spraying regrowth, shield shrubs and green bark from spray drift with a piece of cardboard or plastic.

To Kill Stumps

- · Cut living sturnp close to ground.
- Drive 4 to 5 holes into freshly cut stump.
- Immediately pour undiluted product into holes.

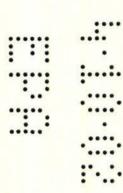
When To Replant

- All ornamental flowers, trees and shrubs may be planted 2 days after application.
- Lawn grasses may be planted 7 days after application.

(Continued)

2

File 8303/Book 1&2/Art Folder: 8303/Monsanto/21208Z1-2 color: Black (White Copy In Black Box)



Page 3

Front Cover

How It Works

Roundup Concentrate Plus enters plants through foliage and moves systemically to the roots, killing weeds by stopping the production of a substance found in plants. Any product not absorbed by plants will be deactivated after it hits the soil. Weeds usually yellow and wilt within hours with complete kill in 1 to 2 weeks.

Satisfaction Guaranteed or your money back with proof of purchase. STORAGE AND DISPOSAL

Storage: Store in original container in a safe place. Disposal: Empty Container: Do not reuse container. Put in trash. (Recycle where available.) Partially Full Container: Call your local waste disposal service or 1-800-CLEANUP. Never pour product down any drain.

This product is protected by U.S. Patents No. 5,683,958 and No. 5,703,015 and No. 6,063,733 and No. 6,121,199 and No. 6,121,200.

Other patents pending. No license granted under any non-U.S. pantent(s).

This is an end-use product. Monsanto does not intend and has not registered it for reformulation or repackaging.

Roundup is a trademark of Monsanto Technology LLC.

NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.

© 2002 MONSANTO COMPANY



041600

3

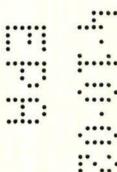
Monsanto Company, Lawn & Garden Products P.O. Box 1750 Columbus, OH 43216-1750 PPN 2120821-2 (041600) EPA Reg. No. 71995-29 EPA Est. 239-14-3¹, 58996-MO-1⁴

Superscript is first letter of lot number Made in USA 0 70183 50055

1025

File 8303/Book 3&F/Art Folder: 8303/Monsanto/21208Z1-2 colors: black, pms 3425 green

bar codes: ITF, 25%, -39 mics / UPCA, 80%, -39 mics









Weed & Grass No. Weed & Grass Killer

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

* People and pets may enter treated areas after spray has dried.

FIRST AID

- If in eyes
- Hold eye open and rinse slowly and gently for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing.

 • Call a poison control center 1-888-768-6387 or doctor for
 - treatment advice.

Emergency Medical Information:

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may contact 1-888-768-6387 for emergency medical treatment information.

ENVIRONMENTAL HAZARDS: This product is toxic to aquatic invertebrates, Do not apply directly to any body of water. Do not contaminate water when disposing of equipment washwaters. (See leaflet for Storage and Disposal Information)



Questions, Comments or Medical Information: Call 1-888-ROUNDUP www.roundup.com

Manufactured for Monsanto Company Lawn & Garden Products P.O. Box 1750 Columbus, OH 43216-1750 EPA Reg. No. 71995-29 (041600) EPA Est. 239-IA-3', 58996-MO-1A Superscript is first letter of lot number

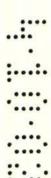
PPN 21208Z1-2 Made in USA

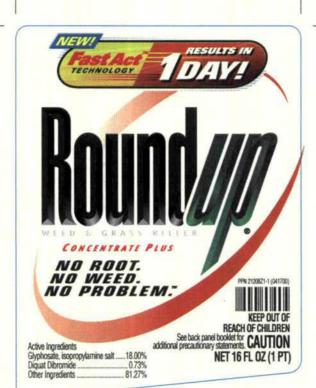
File 29391/base/art Folder: 29391/Monsanto/21208Z1-2

color: Black

bar code: itf, 25%, -58

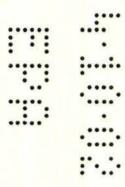






041700

File 29390/front label Created: 2-1-02 bm Folder: 29390/Monsanto/21208Z1-1 alt: 3-04-02 cn color: black, pms 362, pms 430, pms 485, pms 2945, pan yellow bar code: itf, 25%, -58



Page 1

Page 2

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

MIXING INSTRUCTIONS

Tank Sprayer (plastic, aluminum, fiberglass, plastic-lined steel or stainless steel) Do not mix, store, or apply in a galvanized or unlined steel sprayer.

- Add 6 fl oz (12 Tbs) to 1 gallon of water.
- Spot treat.

1 Tablespoon (Tbs) = 3 teaspoons (tsp)

For easy to kill weeds such as seedlings add 3 fl oz (6 Tbs) to 1 gallon of water. To clean sprayer after use, rinse sprayer and all sprayer parts with water 3 times. Spray rinse water on bare soil or gravel. After cleaning, sprayer may be used for other products.

User Safety Recommendation

- Clothing and protective equipment exposed to this product should be washed in detergent and hot water. Such items should be kept and washed separate from other laundry.
- Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- . Users should remove clothing immediately if product gets inside; then wash thoroughly and put on clean clothing.

How To Apply

- · Spray the weeds or grasses you want to kill until thoroughly wet.
- When spot treating weeds around desirable plants, shield plants from drift with a piece of cardboard or plastic. If desirable plants are accidentally sprayed, rinse off immediately with water.

Important: Do not spray plants or grasses you like - they may die too. Not recommended for spot weed control in lawns since Roundup kills lawn grasses.

Application Restrictions: Do not apply this product in a way that will contact any person or pet, either directly or through drift. Only the person applying this product may be in the area during application.

When To Apply

- Apply when weeds are actively growing. Use anytime weeds and grasses are actively growing.
- For best results, apply during warm, sunny weather (above 60F) to accelerate systemic movement from foliage to roots.
- · Apply when air is calm to prevent drift to desirable plants.
- · RAIN-PROOF: Rain or watering 2 hours after application will not wash away effectiveness.

Additional Tips

To Kill Vines

- · If vines are growing up poles, fences, or tree trunks with mature bark, cut vines to a height of 3 to 4 ft and spray vines thoroughly.
- If vines are climbing shrubs, or tree trunks with green bank, cut vines at base and treat as directed for stumps or spray regrowth. If spraying regrowth, shield shrubs and green bark from spray drift with a piece of cardboard or plastic.

To Kill Stumps

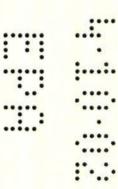
- Cut living stump close to ground.
- Drive 4 to 5 holes into freshly cut stump.
 Immediately pour undiluted product into holes.

When To Replant

- · All ornamental flowers, trees and shrubs may be planted 2 days after application.
- · Lawn grasses may be planted 7 days after application.

(Continued)

File 8303/Book 1&2/Art Folder: 8303/Monsanto/21208Z1-2 color: Black (White Copy In Black Box)



Page 3

Front Cover

How It Works

Roundup Concentrate Plus enters plants through foliage and moves systemically to the roots, killing weeds by stopping the production of a substance found in plants. Any product not absorbed by plants will be deactivated after it hits the soil. Weeds usually yellow and wilt within hours with complete kill in 1 to 2 weeks.

Satisfaction Guaranteed or your money back with proof of purchase.

STORAGE AND DISPOSAL

Storage: Store in original container in a safe place. Disposal: Empty Container: Do not reuse container. Put in trash. (Recycle where available.) Partially Full Container: Call your local waste disposal service or 1-800-CLEANUP. Never pour product down any drain.

This product is protected by U.S. Patents No. 5,683,958 and No. 5,703,015 and No. 6,063,733 and No. 6,121,199 and No. 6,121,200.

Other patents pending. No license granted under any non-U.S. pantent(s).

This is an end-use product. Monsanto does not intend and has not registered it for reformulation or repackaging.

Roundup is a trademark of Monsanto Technology LLC.

NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.

© 2002 MONSANTO COMPANY



For easy to kill weeds such as seedlings add 3 fl oz (6 Tbs) to 1 gallon of water.

Monsanto Company, Lawn & Garden Products P.O. Box 1750 Columbus, OH 43216-1750 PPN 21208Z1-2 (041600) EPA Reg. No. 71995-29 EPA Est. 239-IA-3¹, 58996-MO-1^A Superscript is first letter of lot number

Created: 1-31-02 bm

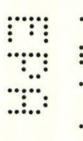
alt: 2-5-02 bm

1025

3

File 8303/Book 3&F/Art Folder: 8303/Monsanto/21208Z1-2 colors: black, pms 3425 green

bar codes: ITF, 25%, -39 mics / UPCA, 80%, -39 mics











Weed & Grass Killer **Concentrate Plus**

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS & DOMESTIC ANIMALS
CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

* People and pets may enter treated areas after spray has dried.

FIRST AID

- Hold eye open and rinse slowly and gently for 15-20 minutes. · Remove contact lenses, if present, after first 5 minutes, then continue rinsing.
 - Call a poison control center 1-888-768-6387 or doctor for treatment advice.

Emergency Medical Information:

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may contact 1-888-768-6387 for emergency medical treatment information.

ENVIRONMENTAL HAZARDS: This product is toxic to aquatic invertebrates. Do not apply directly to any body of water. Do not contaminate water when disposing of equipment washwaters. (See leaflet for Storage and Disposal Information)



Questions, Comments or Medical Information: Call 1-888-ROUNDUP www.roundup.com

Manufactured for Monsanto Company Lawn & Garden Products P.O. Box 1750 Columbus, OH 43216-1750 EPA Reg. No. 71995-29 (041600) EPA Est. 239-IA-3', 58996-MO-1^ Superscript is first letter of lot number

PPN 21208Z1-2

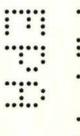
PRESS TO RESEAL

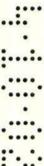
File 29391/base/art

Folder: 29391/Monsanto/21208Z1-2

color: Black

bar code: itf, 25%, -58







MONSANTO COMPANY

600 ISTH STREET, N.W. SUITE 660 WASHINGTON, D.C. 20005 http://www.monsanto.com

27 March 2002

Hand Delivered

Document Processing Center (NOTIF) Office of Pesticide Programs U.S. Environmental Protection Agency Room 266A, Crystal Mall 2, 1921 Jefferson Davis Highway Arlington, VA 22202-4501

Attention:

Mr. Jim Tompkins

Product Manager (Team 25)

Subject:

MON 78307 Herbicide (EPA Reg. No. 71995-29).

Submission of Final Printed Label, Notification of Change in Primary

Brand Name, and Notification of Label Text Changes.

Dear Mr. Tompkins:

Monsanto is herein submitting final printed labeling for MON 78307 Herbicide, which was registered by the Agency on 31 October 2001 under EPA Registration Number 71995-29. MON 78307 will be commercialized under the primary brand name Roundup® Weed & Grass Killer Concentrate Plus.

Enclosed are three (3) copies of the final printed label for Roundup® Weed & Grass Killer Concentrate Plus (print plate nos. 21108Z1-1 and 21108Z1-2). The text of the final printed label is consistent with the EPA stamped master label dated 14 January 2002 with the following exceptions:

- The Disposal section has been modified to add the statement "Do not reuse container" per PR notice 2001-6.
- The Product Facts box has been modified to include the following statement "Apply on warm days in bright sunlight". This text is essentially the same as that approved in the When To Apply section, "...apply during warm, sunny weather..."

Should you have any questions, please contact Dr. Marsha Gray at our Washington office (202) 783-2460 or me directly at (314) 694-8785.

> Sincerely, Rlinde M. 1 Rhonda M. Mannion

Registration Manage

M. Gray / DC Office V. Walters / EPA File copy



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

FEB/06/2002

MEMORANDUM

Subject: MON 78307 Herbicide

EPA Reg. No. 71995-29 DP Barcode: D279044

Case No:070602

PC Code:

103601 Glyphosate, isopropylamine salt

032201 Diquat dibromide

From:

Tracy Keigwin / Sch

Technical Review Branch Registration Division (7505C)

To:

Vickie Walters, PM Team 25

Herbicide Branch

Registration Division (7505C)

Applicant:

Monsanto Co.

800 N. Lindbergh Blvd. St. Louis, MO 63141

FORMULATION FROM LABEL:

Active Ingredient(s):		% by wt.
Glyphosate, isopropylamine salt		18.00
Diquat dibromide		00.73
Inert Ingredient(s)		81.27
	Total:	100.00

ACTION REQUESTED: PM requests review of acute inhalation study to determine if (new) tox category IV warranted.

BACKGROUND: Monsanto Company has submitted a new acute inhalation study (MRID 45461201) in an effort to lower their acute inhalation category from III to IV. The test substance in the study was MON 78567, which is identical to MON 78307 except that the percent glyphosate in MON 78567 is slightly higher.

The study was conducted at Springborn Laboratories, Inc., Spencerville, Ohio.

RECOMMENDATIONS: The acute inhalation study has been reviewed and is acceptable. This study may replace the previous acute inhalation study that was submitted in support of this product. We accept the change in inhalation from acute toxicity category III to acute toxicity category IV.

The acute toxicity profile for MON 78307, EPA File Symbol 71995-29, is as follows:

acute oral toxicity	IV	Acceptable	MRID454106-02
acute dermal toxicity	IV	Acceptable	MRID454106-03
acute inhalation toxicity	IV	Acceptable	MRID454612-01
primary eye irritation	III	Acceptable	MRID454106-05
primary skin irritation	IV	Acceptable	MRID454106-06
dermal sensitization	No	Acceptable	MRID454106-07

LABELING: Based on the toxicity profile above, the following are the precautionary and first aid statements for this product as obtained from the Label Review System.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals:

CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

FIRST AID

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center for treatment advice.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-xxx-xxxx for emergency medical treatment information.

DATA EVALUATION RECORD

STUDY TYPE: ACUTE INHALATION TOXICITY TESTING (870.1300 formerly §81-3)

Product Manager: 25 Reviewer: Tracy Keigwin

TEST MATERIAL PURITY: MON 78567; (0.73% diquat dibromide, 19.01% glyphosate acid (a.e.) [25.6% isopropylamine salt of glyphosate];Lot No. GLP-0102-10951-F; pale amber liquid)

CITATION: Bonnette, Kimberly L. (2001) An acute nose-only inhalation toxicity study in rats with MON 78567. Springborn Laboratories, Inc., Spencerville, Ohio. SLI Study Number 3044.832. June 21, 2001. MRID 45461201. Unpublished

SPONSOR: Monsanto Company, 800 N. Lindbergh Blvd. St. Louis, MO 63141

EXECUTIVE SUMMARY: This study assessed the acute inhalation toxicity of MON 78567 in Sprague Dawley rats. Test subjects were exposed to four hour nose only inhalation concentrations of 2.40 mg/L. Ten male and 10 female Sprague-Dawley®SD® rats were used in the study (males 10-12 weeks, weight 301-352g, females 10-12 weeks, weight 214-233g. The source for all animals was Harlan Sprague Dawley, Inc.) On day "0" selected animals were placed in nose-only exposure tubes and the tubes inserted into a Unifab 100L nose-only inhalation chamber. Animals were observed for clinical abnormalities during exposure, twice post exposure on day "0", and daily thereafter. Health and mortality checks were performed twice daily. Animals were weighed prior to dosing on day "0" and again on days "7" and "14". Dead animals were also weighed. Necropsy examination was performed on the selected animals either at time of death or scheduled euthanasia (day 14).

The acute Inhalation LC₅₀ for MON 78567 is greater than 2.40 mg/L in both sexes (observed).

MON 78567 is classified as Tox Category IV for acute inhalation based on the observed LC_{50} in both sexes.

All mortality occurred by day 6 of the study. One male and 1 female died during the study. Clinical abnormalities noted in the test animals include urine stain, breathing abnormalities (congested breathing, labored breathing, gasping, rales, shallow breathing), decreased defecation/food consumption, hunched posture, apparent hypothermia, dehydration, rough haircoat, unkempt appearance, decreased activity, dark material around the facial area, eyelids partially closed, nasal discharge, slight to moderate hairloss and scabbing in mouth/nose/head region. Body weight loss was noted in all surviving animals during the 0 - 7 day study interval, and body weight gain noted for all surviving animals during the 7 - 14 day study interval. In spite of the gain, only 2 males and 2 females ultimately exceeded their initial body weight by day 14.

The most significant internal findings were observed in the animals that died. These included abnormal contents in the digestive tract and dark red lungs. "One surviving animal exhibited a distended digestive tract at study termination".

This study is classified as **Acceptable** (870.1300) and satisfies the guideline requirement for an acute inhalation study in the rat.

<u>COMPLIANCE</u>: Signed and dated GLP, Quality Assurance and (No)Confidentiality statements were provided

RESULTS

Exposure Concentration (mg/L)	Number of Deaths/Number Tested				
	Males	Females	Combined		
2.40	1/5	1/5	2/10		

Deaths occurred by study day 6

Chamber atmosphere

Exposure Concentration (mg/L)	MMAD (μm)	GSD	
2.40	2.7	± 2.4	

Chamber Environment (nose only)

	Analytical Exposure Level (mg/L)
Chamber volume (L)	100
Mean Airflow Rate (L/min)	29.5
Temperature (°F)	74-75
Relative Humidity (%)	49-60

OBSERVATIONS: All mortality occurred by day 6 of the study. One male and 1 female died during the study. Clinical abnormalities noted in the test animals include urine stain, breathing abnormalities (congested breathing, labored breathing, gasping, rales, shallow breathing), decreased defecation/food consumption, hunched posture, apparent hypothermia, dehydration, rough haircoat, unkempt appearance, decreased activity, dark material around the facial area, eyelids partially closed, nasal discharge, slight to moderate hairloss and scabbing in mouth/nose/head region. Body weight loss was noted in all surviving animals during the 0 - 7 day study interval, and body weight gain noted during the 7 - 14 day interval. In spite of the gain, only 2 males and 2 females ultimately exceeded their initial body weight by day 14.

GROSS NECROPSY: The most significant internal findings were observed in the animals that died. These included abnormal contents in the digestive tract and dark red lungs. "One surviving animal exhibited a distended digestive tract at study termination".

ACUTE TOX ONE-LINERS

1. DP BARCODE: D279044

2. PC CODE: 103601, 032201 **3. CURRENT DATE:** 06/FEB/2002

4. TEST MATERIAL: MON 78567; (0.73% diquat dibromide, 19.01% glyphosate

acid (a.e.) [25.6% isopropylamine salt of glyphosate];Lot No.

GLP-0102-10951-F; pale amber liquid

Study/Species/Lab Study # /Date	MRID	Results	Tox. Cat.	Core Grade
Acute inhalation toxicity/rat Springborn Laboratories, Inc. 3044.832/6-21-01	454612-01	LC ₅₀ > 2.40 mg/L (males females combined)	IV	A

Core Grade Key: A =Acceptable, S = Supplementary, U = Unacceptable, V = Self Validated



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

JAN 14 2002

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Ms. Rhonda M. Mannion Monsanto Company 600 13th Street, N.W. Suite 660 Washington, DC 20005

Dear Ms. Mannion:

Subject: MON 78307 Herbicide (Change Category for Acute Inhalation)

EPA Registration No. 71995-29

Resubmission Dated December 20, 2001

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended is acceptable. Please submit three (3) copies of your final printed labeling before you release the product for shipment. A stamped copy of labeling is enclosed for your records.

Sincerely,

Vuku Kwaltos jal

James A. Tompkins Product Manger 25 Herbicide Branch

Registration Division (7505C)

[Editorial Notes: Bracketed text [] is for internal use or serves as a 'place holder' for graphics. Parenthetical text () denotes optional wording.]

[Refer to APPENDIX 1 for consolidated list of label claims.]

[Refer to APPENDIX 2 for packaging related claims/instructions]

MON 78307 Herbicide

Alternate Brand Name: Roundup Weed & Grass Killer Fast Act Concentrate2

A C C E P T E D

JAN 1 4 2002

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under

KEEP OUT OF REACH OF CHILDREN CAUTION

See back panel booklet for additional precautionary statements. (Read precautions and directions on back label.)

NET [xxx]

Product Fa	acts		
Treats up to	o xx sq ft (approx. size of XX tennis courts)		
[When cald is 2,106 so	culating coverage, one gallon treats 300 sq ft and a tennis court q ft.]		
KILLS	[Illustrate grassy, broadleaf and woody weeds]		
WEEDS	ALL TYPES OF WEEDS & GRASSES		
WHERE	On patios, walkways, driveways, gravel or mulch beds		
TO USE	Around flowers, shrubs or trees		
	Along fences		
	Other areas in your yard		
AMOUNT	For best results		
TO USE	6 fl oz (12 Tbs) per gallon of water		
[phone icon	Questions, Comments or Medical Information		
	call 1-800-225-2883 www.roundup.com		
	(call 1-888-Roundup)		

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

MIXING INSTRUCTIONS

[optional tank sprayer illustration]

Tank Sprayer (plastic, aluminum, fiberglass, plastic-lined steel or stainless steel. (Do not (mix, store or) apply with (in) a galvanized or unlined steel sprayer.)

- (For tough established weeds / For best results,) add 6 fl oz (12 Tbs) to 1 gallon of water.
- (For easy to kill weeds such as small seedlings, add 3 fl oz (6 Tbs) to 1 gallon of water.)
- (Spot treat)

1 Tablespoon (Tbs) = 3 teaspoons (tsp)

1 fl oz = 2 Tbs

Do not (mix, store or) apply with (in) a galvanized or unlined steel (except stainless steel) sprayer, or through any irrigation system.

To clean sprayer after use, rinse sprayer and all sprayer parts with water 3 times. Spray rinse water on bare soil or gravel. After cleaning, sprayer may be used for other products.

USER SAFETY RECOMMENDATIONS [optional illustration]

- Clothing and protective equipment exposed to this product should be washed in detergent and hot water. Such items should be kept and washed separate from other laundry.
- Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Users should remove clothing immediately if product gets inside; then wash thoroughly and put on clean clothing.

HOW TO APPLY [optional illustration]

- Spray the weeds or grasses you want to kill until thoroughly wet.
- When spot treating weeds around desirable plants, shield plants from drift with a sheet (piece) of cardboard or plastic. If desirable plants are accidentally sprayed, rinse off immediately with water.

IMPORTANT: Do not spray plants or grasses you like - they may die too. Not recommended for spot weed control in lawns since MON 78307 (Roundup) kills lawn grasses.

Application Restrictions: Do not apply this product in a way that will contact any person or pet, either directly or through drift. Only the person applying this product may be in the area during application.

WHEN TO APPLY [optional illustration]

- Use anytime weeds and grasses are actively growing. (Apply when weeds are actively growing.)
- For best results, apply during warm, sunny weather (above 60° F) to accelerate systemic movement from foliage to roots.
- Apply when air is calm to prevent drift to desirable plants.
- (RAIN-PROOF:) Rain or watering 2 hours (30, 60, or 90 minutes) after application will not wash away effectiveness.
- (Apply when weeds are small and before seeds form. Established (Hard to kill) weeds may require a repeat application.)

ADDITIONAL TIPS [optional illustration]

To Kill Vines

 If vines are growing up poles, fences, or tree trunks with mature bark, cut vines to a height of 3 to 4 feet and spray vines thoroughly.

 If vines are climbing shrubs or tree trunks with green bark, cut vines at base and treat as directed for stumps or spray regrowth. If spraying regrowth, shield shrubs and green bark from spray drift with a sheet (piece) of cardboard or plastic.

To Kill Stumps

- Cut living stump close to ground.
- Drive 4 to 5 holes into freshly cut stump.
- Immediately pour undiluted product into holes.

Kudzu

For best results, apply in mid to late summer when vines are mature and actively growing.

Wild Blackberry

Spray anytime plants are actively growing. Dead canes should be cut down and removed. Reapplication is often required to kill deep roots.

Poison Ivy & Poison Oak

Contact with these plants anytime of the year can cause an allergic reaction. Spray anytime plants are actively growing, but at least 4 weeks before the first killing frost in the fall. Reapply, if new growth appears. Handle dead plants with rubber gloves. Dispose of plants and rubber gloves in tightly sealed garbage bags.

WHEN TO REPLANT [optional illustration]

- All ornamental flowers, trees and shrubs may be planted 2 days after application.
- Lawn grasses may be planted 7 days after application.

HOW IT WORKS [optional illustration]

MON 78307 (Roundup) enters plants through foliage and moves systemically to the roots, killing weeds by stopping the production of a substance found in plants. Any product (Roundup) not absorbed by plants will be deactivated after it hits the soil. Weeds usually yellow and wilt within hours with complete kill in 1 to 2 weeks.

KILLS ALL TYPES OF WEEDS & GRASSES [optional illustration]

Weeds (including): Artichoke thistle, beggarweed, black medic, blue mustard, blue toadflax, brassbuttons, broadleaf plantain, burclover, buttercup, Canada thistle, cattail, chickweed, cocklebur, common groundsel, common mullein, common plantain, common ragweed, creeping beggarweed, creeping-charlie, curly dock, dandelion, dog fennel, evening primrose, false dandelion, fiddleneck, field bindweed (wild

morningglory), field pennycress, filaree, Florida pusley, garden spurge, henbit, horsenettle, horseradish, horseweed/ marestail, iceplant, knapweed, knotweed, lambsquarters, lantana, little bittercress, London rocket, mallow, mayweed, milkweed, mouseear chickweed, narrowleaf (buckhorn) plantain, nightshade (silverleaf), oldenlandia, oxalis, Pennsylvania smartweed, pennywort, poison hemlock, prickly lettuce, primrose, prostrate spurge, puncturevine, ragweed, red clover, redroot pigweed, shepherdspurse, smooth catsear, smooth pigweed, sowthistle, spotted spurge, tansy ragwort, tansymustard, teaweed, trumpetcreeper, tumble mustard, Virginia creeper, white clover, whitetop, wild barley, wild mustard, wild oats, wild sweet potato, yellow starthistle, and other broadleaf weeds

Grasses (including): Annual bluegrass, annual ryegrass, bahiagrass, barnyardgrass, bentgrass, Bermudagrass, bromegrass, Cogongrass, crabgrass, creeping bentgrass, dallisgrass, fall panicum, fescue, field sandbur, foxtail, goosegrass, guineagrass, Johnsongrass, Kentucky bluegrass, kikuyugrass, lovegrass, maidencane, nimblewill, nutsedge, orchardgrass, pampas grass, perennial ryegrass, purple nutsedge, quackgrass, sandspur, smooth bromegrass, sprangletop, St. Augustinegrass, tall fescue, Texas panicum, Timothy, torpedograss, vaseygrass, witchgrass, yellow nutgrass, zoysia and other grassy weeds

Brush (Tough Weeds), Unwanted Trees, Shrubs & Vines (including):

Alder, ash, (quacking) aspen, blackberry, bluegum eucalyptus, broom (French, Scotch), buckwheat, ceanothus, chamise, cherry, coyote brush, dewberry, elderberry, elm, eucalyptus, giant reed, hawthorn, hazel, honeysuckle, kudzu, locust, madrone, maple, oak, persimmon, poison oak, poison ivy, poplar, raspberry, sage, sagebrush, salmonberry, saltcedar, sassafras, sumac, sweetgum, tan oak, thimbleberry, tree tobacco, wild rose (multiflora) willow and other tough weeds

STORAGE AND DISPOSAL [trash can illustration]

STORAGE: Store in original container in a safe place.

DISPOSAL: Empty Container: Put in trash. (Recycle where available.) Partially Full Container: Call your local waste disposal service (1-800-CLEANUP). If local laws permit, put partially full container in trash. Never pour product down any drain.

HOW TO REFILL ROUNDUP READY-TO-USE CONTAINERS

- 24 fl oz Roundup Weed & Grass Killer₁ Ready-To-Use:
 To empty container add 2 fl oz of MON 78307 (Roundup Concentrate) then fill with water very slowly to avoid foaming.
- ½ Gallon Roundup Weed & Grass Killer, Ready-To-Use:
 To empty container add 5 fl oz of MON 78307 (Roundup Concentrate) then fill with water very slowly to avoid foaming.

Gallon Roundup Weed & Grass Killer, Ready-To-Use:

To empty container add 10 oz of MON 78307 (Roundup Concentrate) then fill with water very slowly to avoid foaming.

1.33 Gallon Roundup PNS (II):

To empty container add 13 fl oz of MON 78307 (Roundup Concentrate) then fill with water very slowly to avoid foaming.

· 6L Roundup Weed & Grass Killer, Ready-To-Use:

To empty container add 16 fl oz of MON 78307 (Roundup Concentrate) then fill with water very slowly to avoid foaming.

2 Gallon Roundup Weed & Grass Killer, Ready-To-Use:

To empty container add 20 fl oz of MON 78307 (Roundup Concentrate) then fill with water very slowly to avoid foaming.

PRECAUTIONARY STATEMENTS [optional illustration]

[re-entry icon] People and pets may enter treated area after spray has dried.

HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION:

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

	FIRST AID
If in eyes	 Hold eye open and rinse slowly and gently for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. Call a poison control center (1-800-225-2883 or 1-888-768-6387 or 1-888-Roundup) or doctor for treatment advice.

Emergency Medical Information

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may contact 1-800-225-2883 (1-888-768-6387 or 1-888-Roundup) for emergency medical treatment information.

ENVIRONMENTAL HAZARDS: This product is toxic to aquatic invertebrates. Do not apply directly to any body of water. Do not contaminate water when disposing of equipment washwaters.

NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.

This product is protected by U.S. Patents No. 5,683,958 and No. 5,703,015 and No. 6,063,733 and No. 6,121,199 and No. 6,121,200. Other patents pending. No license granted under any non-U.S. patent(s).

This is an end-use product. Monsanto does not intend and has not registered if for reformulation or repackaging.

[phone icon] Questions, Comments or Medical Information call 1-800-225-2883 www.roundup.com (call 1-888-Roundup)

Roundup is a trademark of Monsanto Company

©[__] MONSANTO COMPANY

Manufactured for
Monsanto Company, Lawn & Garden Products
P.O. Box 1750
Columbus, OH 43216
Form [___]
EPA Reg. No. 71995-29
EPA Est. 239-IA-3^I, 58996-MO-1^A
Superscript is first letter of lot number
Made in USA

APPENDIX 1 - Consolidated List of Label Claims

[Ordered alphabetically]

- Absorbed into both broadleaf and grassy weeds
- Absorbs on contact, starts working immediately
- Absorbs 3 times (X) faster to the root than competitive brands for quicker, more effective root kill
- Approved for most (many) lawn and garden uses
- Before [weed graphics] / After [weed graphics]
- · Begins absorbing on contact
- Can be used for habitat restoration, controlling exotic vegetation, and for site preparation of wildlife food plots
- · Can reseed or sod lawns 7 days after treatment
- · Concentrated for extra value
- Contains FastAct™ (technology)
- Dare to compare (a picture is worth 1,000 words): Roundup works faster than any competitor (imitator)
- Dead Weeds Guaranteed
- Dead Weeds Guaranteed or Your Money Back
- Dead (weeds) in a day
- · Does not have soil activity
- Economical
- · Economical concentrate formula
- · Easy to apply with a tank or (hand held) trigger sprayer
- Even if it rains Roundup won't lose its effectiveness
- Exclusive Roundup formula
- Experience the Roundup Advantage (peel back this panel for detail) (see details inside / underneath this booklet) (see details on back panel)
- Fast-acting formula
- Fast-acting formula works twice as fast (50% faster)
- Fast-acting formula absorbs to root more quickly
- Faster than ever
- Fastest Roundup (formulation) ever
- For control that doesn't (won't) wash away
- For general weed control kills weeds and grasses in 2 to 4 weeks roots and all
- For weeds that are dead in a (one) day
- · Guaranteed same effective results even if it rains within hours
- · Guaranteed effective: Kills over 200 types of weeds and grasses, roots and all, with

just one application

- Guaranteed (we guarantee it)
- Ideal for killing unwanted weeds and grasses throughout your yard. Use along fences; in cracks of walks, drives and patios; and around flower beds, trees and shrubs
- Imitators (competitors) (other weedkillers) cannot match Roundup's proven performance: [picture of Roundup versus generic competitors]
- · Improved extra strength formula
- Improved formula, completely kills even the toughest weeds and grasses
- Keeps driveways, walkways, landscaping beds, and flower gardens weed-free all season long
- Kills almost all (annual and perennial) weeds, grasses and other unwanted plants
- Kills existing weeds only, no residual activity in soil
- Kills more weeds in more places.
- Kills over 100 weeds
- · Kills (to) the root
- Kills (the toughest weeds and grasses) the root so weeds (they) don't come back
- Kills the root so weeds don't come back
- Kills the roots of (both) broadleaf and grassy weeds
- Kills the weed you see and the root you don't
- Kills unwanted weeds and grasses, roots and all
- Kills weeds in flowerbeds, around trees, shrubs and fences, and on patios, paths, sidewalks, sidewalk cracks, walkways, driveways, and other areas in your yard
- Kills weeds, roots and all
- Lawns and gardens can be reseeded or planted soon after treatment
- · Make only what you need
- Multipurpose grass and broadleaf weed control
- NEW!
- Next day (this weekend) results: Begins killing on contact, visible results in 24 hours
- No odor
- No root. No weed. No problem.
- · Nobody kills more weeds
- Nobody's better than Roundup
- Nobody's faster
- Nobody's better
- · Nothing is more effective
- Nothing works better
- Nothing kills more weeds
- NOW!
- Now a shorter wait for replanting!
- Once it enters the plant, it won't wash off
- One application kills over 200 types of weeds and grasses, roots and all (maximum effectiveness)
- Only Roundup's effectiveness (formula) won't be washed away by rain or watering 2 hours (1 hour)(30 minutes) after treatment

71995-29

Amendment 20 December 2001

- Proven (trusted) performance: Only Roundup works the first time, every time and has for 25 years
- Provides maximum control: Kills weeds to the root so they don't ever come back
- Quick kill formula (the toughest)
- Quick-action formula lets you see results 50% faster than other brands
- Quick-action formula lets you see results two times faster than other brands
- Ornamental gardens can be reseeded or planted 1 day after treatment
- RainFast in hours enters the plant on contact
- RAIN-PROOF™ (Mistake Proof)
- RAIN-PROOF™ in two hours (30, 60, or 90 minutes)
- Roundup can be used (almost) anywhere weeds and grasses grow, including patios, walkways, and driveways; along fences; in landscaping beds; or around flowers, shrubs and trees
- . (Roundup) Kills the weed you see and the root others leave behind
- Roundup's exclusive (patented) formula (technology) kills to the root so weeds don't come back
- Roundup kills weeds and grasses in Patios Driveways Sidewalks Ornamental Gardens and other non-lawn areas
- · Satisfaction guaranteed or we will gladly refund purchase price
- Satisfaction guaranteed or your money back with proof of purchase
- See results in hours
- · See results in 24 hours
- Speeds absorption to the root for complete kill
- Spray weeds (Use) in flowerbeds, around trees, shrubs and around fences, and on patios, paths, sidewalks, sidewalk cracks, walkways, driveways, and other areas in your yard
- · Starts to kill in hours
- · Starts working immediately (in hours)
- Stronger
- The best weed killer you can buy guaranteed (we guarantee it)
- The fastest weed killer (starts working immediately)
- The fastest concentrate formula
- The most effective weed (and grass) killer (you can buy)
- The strongest weed and grass killer you can buy: Guaranteed
- Superior results
- Transorb technology speeds Roundup to the root to kill even tough weeds
- Twice as fast
- · Ultra concentrated formula
- Ultra formula
- (Use) For Brush Control
- (Use) For General Weed Control: Use along fences, paths, patios, sidewalks and driveways, around trees, shrubs, ornamental plantings, flowerbeds, and buildings, and in brick and gravel walkways.
- · Use to trim and edge landscape areas.
- (Use) For Spot Spraying: Use in and around flowerbeds, ornamental trees, shrubs,
 71995-29
 Amendment 20 December 2001

fences, driveways and walkways

- (Use) For Stumps
- (Use in) Apply with a Big Shot™ Multi-Purpose Sprayer or other tank sprayer, or a (hand held) trigger sprayer
- Visible effects are gradual wilting and yellowing advancing to complete browning and root destruction.
- Water based formula
- · Won't wash off
- Won't wash away
- · Works first time, every time
- Works in hours
- Works only when absorbed by the foliage of weeds

[Promotional options]

- Save up to \$[x] on (your) next purchase
- Free weed guide inside
- Free [] with this purchase of Roundup concentrate quart
- FREE REFILL
- FREE SAMPLE
- SAMPLE NOT FOR SALE

APPENDIX 2 - Packaging Related Claims

NET xx fl oz (qt or gal) (xx mL or L) 6 fl oz (177 mL) 13 oz (384 mL) 16 fl oz (1 pt) (473 mL) 32 fl oz (1 qt) 946 mL) 53.7 fl oz (0.42 gal) (1.5 L) 64 fl oz (1/2 gal) (1.89 L) 128 fl oz (1 gal) (3.79 L)

[corner flap]
OPEN
Resealable Label for Directions & Precautions
PULL HERE TO OPEN LABEL
PEEL HERE
PEEL OPEN FOR USE DIRECTIONS AND FURTHER INFORMATION
PRESS TO RESEAL

[Net contents] Makes up to 'X' gallons

Makes between 'X' – 'Y' gallons

Mix with water to make 'X' gallons of spray solution

Covers up to 'Z' sq ft

Mix with water to cover up to 'Z' sq ft

[$X = net contents \div 3$] [$Y = net contents \div 6$] [Z = X * 300]

[Pint] Makes up to 5 gallons
Makes between 2½ - 5 gallons
Mix with water to make 5 gallons of spray solution
Covers up to 1,500 sq ft
Mix with water to cover up to 1,500 sq ft

[Quart] Makes up to 10 gallons
Makes between 5 – 10 gallons
Mix with water to make 10 gallons of spray solution
Covers up to 3,000 sq ft
Mix with water to cover up to 3,000 sq ft

[0.42 Gallon] Makes up to 18 gallons Makes between 9 – 18 gallons

71995-29 Amendment 20 December 2001 EPA Approved 10/31/2001 Master Label

Mix with water to make 18 gallons of spray solution

Covers up to 5,400 sq ft

Mix with water to cover up to 5,400 sq ft

[Half Gallon] Makes up to 21 gallons

Makes between 10 - 21 gallons

Mix with water to make 21 gallons of spray solution

Covers up to 6,300 sq ft

Mix with water to cover up to 6,300 sq ft

[Gallon]

Makes up to 42 gallons

Makes between 21 - 42 gallons

Mix with water to make 42 gallons of spray solution

Covers up to 12,600 sq ft

Mix with water to cover up to 12,600 sq ft

New! Larger size, covers up to ['Z'] sq ft

With (the convenient) measuring cup, mixing MON 78307 (controlling weeds around your home) has never been easier

With (the convenient) measuring cup, controlling weeds all around your home has never been this fast and easy

Note for Records

Name of Product: MON 78307 Herbeide

EPA Registration No./ File Symbol: 7 1995-29

Submission Date: 12/20/01-resubstited & Company

Received Date: 12/20/01

Date Worked: 1/3/02 - decision on inholation study

AWP 1/11/02 - Label Renew & Completion

Description of action:

sulmisser of inholation study to nume category for acute inhabition

to IV

MR ID of Study # 45461201

Comments: 5 males and 5 female mes noto were exposed to 2.40 mg/L text material for 4 hours. 5 1/5 and ond 1/5 females dead

Confuned with TRB. Therefore Category ID is acceptable; no precontierary a furt and prototions required for accute inhabition

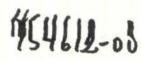
Signature and Date:

(Amb)

Study and talel acceptable

VKW 1/11/01

MONSANTO



Resulmited by Company 12/20/01

MONSANTO COMPANY 800 NORTH LINDSERGH BLVD ST. LOUIS, MISSOURI 63167 PHONE (314) 694-1000 http://www.monsanto.com

20 July 2001

Hand Delivered

Document Processing Center (AMEND)
Office of Pesticide Programs
U.S. Environmental Protection Agency
Room 266A, Crystal Mall 2,
1921 Jefferson Davis Highway
Arlington, VA 22202-4501

Attention:

Mr. Jim Tompkins

Product Manager (Team 25)

Subject:

MON 78307 Herbicide (EPA Reg. No. 71995-EO). Submission of Additional Acute Inhalation Data in Support of the Application to Register MON 78307

Herbicide.

Dear Mr. Tompkins:

Monsanto is herein submitting the acute inhalation study for MON 78567 as R.D. 1547 (one volume) in support of our application to register MON 78307 Herbicide (Reg. No. 71995-EO). The master label has also been revised to reflect the new inhalation data and is intended to replace the previously submitted master label provided in R.D. 1537 that was submitted to the Agency on 17 May 2001.

The application to register MON 78307 Herbicide was originally supported by an acute inhalation study on a similar formulation, MON 78408, which contained higher levels of glyphosate, diquat and surfactant. As a result, the acute inhalation toxicology data supported a category III classification. Since Monsanto desired MON 78307 to have an equivalent acute toxicological profile as our current Roundup concentrated products, a second inhalation study was conducted using MON 78567 and is now being submitted.

MON 78567 contains the same levels of diquat and surfactant as MON 78307 but with a slightly higher glyphosate level, thus the acute toxicity of MON 78567 is considered to be representative of MON 78307. A compositional comparison of MON 78307, MON 78408, and MON 78567 can be found in the confidential attachment of the administrative volume of R.D. 1537.

Should you require any additional information or have any questions, please contact Dr. Marsha Gray at our Washington office (202) 783-2460 or me directly at (314) 694-8785 or rmmann@monsanto.com.

Sincerely, Alenda M. Man

Rhonda M. Mannion Registration Manager

cc: Vickie Walters / EPA Marsha Gray / Monsanto DC File copy

TRANSMITTAL DOCUMENT

SUBMITTED BY

Monsanto Company

Lawn & Garden Products 800 N. Lindbergh Blvd. St. Louis, MO 63167

REGULATORY ACTION IN SUPPPORT OF WHICH THE PACKAGE IS SUBMITTED

Application for Registration of MON 78307 Herbicide

DATA GUIDELINES 81-3 [OPPTS Series 870.1300]

TRANSMITTAL DATE

20 July 2001

SUBMISSION NUMBER

R.D. 1547. 1 volume

LIST OF SUBMITTED DATA:

Volume

Monsanto Study

Author

Title

Number R.D. 1547

Bonnette, K.L.

An Acute Nose-Only Inhalation Study in

Rats with MON 78567

MRID 454612.01

COMPANY OFFICIAL:

Rhonda M. Manne

Rhonda M. Mannion Registration Manager

COMPANY NAME:

Monsanto Company

COMPANY CONTACT:

Dr. Marsha Gray (202) 783-2460

Transmittal Document R.D. 1541

Page 1



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OCT 3 1 2001

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Ms. Rhonda M. Mannion Monsanto Company 600 13th Street, NW Suite 660 Washington, DC 20005

Dear Ms. Mannion:

Subject: MON 78307 Herbicide (Alternate Formulation B) EPA Registration No. 71995-29 Your Application Dated October 14, 2001

The scientific review and evaluation of the requested confidential statement of formula have been completed. Alternate formulation B is acceptable and our records have been modified accordingly.

Sincerely,

James A. Tompkins

Product Manager 25

Herbicide Branch

Registration Division (7505C)

			firig.	9151 1 1 1 219		110	212	011
	47HQQ QP \$UPPQAT	1.00		MARAGER	-	7	•••	10
	J. O. O.	1""			he.	. 100.	16710 4	TVAN
	-1	111. 4	CT:00 1	776		Ī.	•••	1
	25/01			te Formulation B	1306	12. 3470	-	178
-			-	345		1	1	i
7 (2)	A EVIEW TYPE	CO	ewes ot was	SIGNATURE OF REVIEWER	COM.	- F. AD	0 . T	
1		j.				1	1	1
1		- 1						
0		1						
0			1				1	1
1 8		1			*			1.
-		. 1		UKW	NAC	110	25	011
G		1	1			1	1	Fi
H		1				1	1	
1		1				1		
3		1				- 1		
K	€ 5	1	1			1		
L	CEE 00	1			-	1		
M		1		5		1	1	1
N		1				Ti		T
9	C=Cw5787 68 44CB 4CH6US C=Cw5787	1		6 m	-	1	1	1
P		1					1	
a	TO STORE SAFETY COLORER	. 1		•		1	Ti	Ti
R		1				1	1	T
8		1.				1	1	T
F						10	1	
	T MANAGER SIGNATURE .		-	TYPE OF RESPONDE			-	C894

EPA Form 6579-13 (3-76)



4

MONSANTO COMPANY

Washington, D.C. 20005 http://www.monsanto.com

600 13TH STREET, NW

SUITE 660

15 October 2001

Hand Delivered

Document Processing Center (AMEND)
Office of Pesticide Programs
U.S. Environmental Protection Agency
Room 266A, Crystal Mall 2,
1921 Jefferson Davis Highway
Arlington, VA 22202-4501

Attention:

Mr. Jim Tompkins

Product Manager (Team 25)

Subject:

MON 78307 Herbicide (EPA Reg. No. 71995-EO). Submission of Formulation

Amendment.

Dear Mr. Tompkins:

Monsanto is herein submitting for approval a formulation amendment for MON 78307 (Reg. No. 71995-EO). Alternate B has been developed to allow for the use of

as the source of diquat dibromide active ingredient in MON 78307. This formulation is identical to the formulas (basic and alternate A) submitted on 11 May 2001 as a part of the initial registration request (R.D. 1537) except for the different source of diquat.

Should you require any additional information or have any questions regarding this formula amendment, please contact Dr. Marsha Gray at our Washington office (202) 783-2460 or me directly at (314) 694-8785 or rmmann@monsanto.com.

Sincerely,

Rhonda M. Mannion Registration Manager

cc: Vickie Walters / EPA Marsha Gray / DC Office File room copy



trease read instructions on reverse before completing form.

ŞEPA

United States

Environmental Protection Agency

	Registration
1	Amendment
	Other

Form Approved, OMB No. 2070-0060, Approval expires 2-28-95

OPP Identifier Number

DOMA AL

	Washi	ngton, DC 204	60		Other	280 841
		Applicatio	n for Pesticide	- Section I		
1. Company/Product Number 71995-EO	or		2. EPA Prode Mr. Jim To		3, 1	Proposed Classification None Restricted
4. Company/Product (Name MON 78307			PM# 25			Nestricted
5. Name and Address of Ap Monsanto Company 600 13th Street N.W. Washington, DC 200	, Suite 660	ode)	(b)(i), my pi	No		th FIFRA Section 3(c)(3) composition and labeling
			Section - II	idilic		
Amendment - Explain Resubmission in resp Notification - Explain Explanation: Use addition Submission of formula amen	ponse to Agency letter below. nal page(s) if necessar		Age "Me	al printed labels ency letter dated e Too" Applicati er - Explain belo	on	
			Section III			
1. Material This Product Wil	I De Deskared Inc		Section - III			
Child-Resistant Packaging Yes No * Certification must	Unit Packaging Yes No If "Yes" Unit Packaging wgt.	No. per container		ging :	2. Type of Containe Metal Plastic Glass Paper Other	
be submitted 3. Location of Net Contents	Information	4. Size(s) Reta	ail Container	5. Loca	tion of Label Direct	tions
Label 6. Manner in Which Label is	Container Affixed to Product	Lithogr Paper Stencii	raph [Other		
			Section - IV			
1. Contact Point (Complete	items directly below t	or identification	n of individual to be con	tacted, if neces	sary, to process th	is application.)
Name Dr. Marsha Gray			Title Registration Manager		Telepho (202) 78	ne No. (Include Area Code) 33-2460
	ny knowlinglly false or		tion all attachments thereto tement may be punishal			6. Date Application Reserved (Stamped)
2. Signature Rhonele M. Man			3. Title Registration Manager			
4. Typed Name Rhonda M. Mannion			5. Date 14 October 2001			



U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (H7505C) 401 "M" St., S.W. Washington, D.C. 20460

71995-29

EPA Reg.

Number:

Date of Issuance:

OCT 3 1 2001

Term of Issuance: Conditional

Name of Pesticide Product:

MON 78307 Herbicide

NOTICE OF PESTICIDE: x Registration __ Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Monsanto Company 600 13th Street, N.W. Suite 660 Washington, DC 20005

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Pungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

- 1. Submit the storage stability and corrosion characteristics study once it is completed.
- 2. Submit/cite all data required for registration/reregistration of your product when the Agency requires all registrants of similar products to submit such data.
- 3. Add the phrase "EPA Registration No. 71995-29" before you release the product for shipment.
- 4. Submit three (3) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of this product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Signat	ira pi	Approving	Officia
	(1
1/2	1	Ken	(_
100	8570-	161	
EPA HOLM	8570-		

Date:

10-31-01

Sparke Copy

[Editorial Notes: Bracketed text [] is for internal use or serves as a 'place holder' for graphics. Parenthetical text () denotes optional wording.]

[Refer to APPENDIX 1 for consolidated list of label claims.]

[Refer to APPENDIX 2 for packaging related claims/instructions]

MON 78307 Herbicide

KEEP OUT OF REACH OF CHILDREN CAUTION

See back panel booklet for additional precautionary statements. (Read precautions and directions on back label.)

NET [xxx]

ACCEPTED

OCT 3 1 2001

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No 7/995-29

	o xx sq ft (approx. size of XX tennis courts) culating coverage, one gallon treats 300 sq ft and a tennis court is					
KILLS WEEDS	[Illustrate grassy, broadleaf and woody weeds] ALL TYPES OF WEEDS & GRASSES					
WHERE TO USE	 On patios, walkways, driveways, gravel or mulch beds Around flowers, shrubs or trees Along fences Other areas in your yard 					
AMOUNT	For best results					
TO USE	6 fl oz (12 Tbs) per gallon of water					
[phone icon	n] Questions, Comments or Medical Information call 1-800-225-2883 www.roundup.com (call 1-888-Roundup)					

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

MIXING INSTRUCTIONS

[optional tank sprayer illustration]

Tank Sprayer (plastic, aluminum, fiberglass, plastic-lined steel or stainless steel. (Do not (mix, store or) apply with (in) a galvanized or unlined steel sprayer.)

- (For tough established weeds / For best results,) add 6 fl oz (12 Tbs) to 1 gallon of water.
- (For easy to kill weeds such as small seedlings, add 3 fl oz (6 Tbs) to 1 gallon of water.)
- (Spot treat)

1 Tablespoon (Tbs) = 3 teaspoons (tsp)

1 fl oz = 2 Tbs

Do not (mix, store or) apply with (in) a galvanized or unlined steel (except stainless steel) sprayer, or through any irrigation system.

To clean sprayer after use, rinse sprayer and all sprayer parts with water 3 times. Spray rinse water on bare soil or gravel. After cleaning, sprayer may be used for other products.

USER SAFETY RECOMMENDATIONS [optional illustration]

- Clothing and protective equipment exposed to this product should be washed in detergent and hot water. Such items should be kept and washed separate from other laundry.
- Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Users should remove clothing immediately if product gets inside; then wash thoroughly and put on clean clothing.

HOW TO APPLY [optional illustration]

- Spray the weeds or grasses you want to kill until thoroughly wet.
- When spot treating weeds around desirable plants, shield plants from drift with a sheet (piece) of cardboard or plastic. If desirable plants are accidentally sprayed, rinse off immediately with water.

IMPORTANT: Do not spray plants or grasses you like - they may die too. Not recommended for spot weed control in lawns since MON 78307 (Roundup) kills lawn grasses.

Application Restrictions: Do not apply this product in a way that will contact any person or pet, either directly or through drift. Only the person applying this product may be in the area during application.

WHEN TO APPLY [optional illustration]

- Use anytime weeds and grasses are actively growing. (Apply when weeds are actively growing.)
- For best results, apply during warm, sunny weather (above 60° F) to accelerate systemic movement from foliage to roots.
- Apply when air is calm to prevent drift to desirable plants.
- (RAIN-PROOF:) Rain or watering 2 hours (30, 60, or 90 minutes) after application will not wash away effectiveness.
- (Apply when weeds are small and before seeds form. Established (Hard to kill) weeds may require a repeat application.)

ADDITIONAL TIPS [optional illustration]

To Kill Vines

- If vines are growing up poles, fences, or tree trunks with mature bark, cut vines to a height of 3 to 4 feet and spray vines thoroughly.
- If vines are climbing shrubs or tree trunks with green bark, cut vines at base and

MON 78307 Herbicide EPA Reg No. 71995-EO treat as directed for stumps or spray regrowth. If spraying regrowth, shield shrubs and green bark from spray drift with a sheet (piece) of cardboard or plastic.

To Kill Stumps

- Cut living stump close to ground.
- Drive 4 to 5 holes into freshly cut stump.
- Immediately pour undiluted product into holes.

Kudzu

For best results, apply in mid to late summer when vines are mature and actively growing.

Wild Blackberry

Spray anytime plants are actively growing. Dead canes should be cut down and removed. Reapplication is often required to kill deep roots.

Poison Ivy & Poison Oak

Contact with these plants anytime of the year can cause an allergic reaction. Spray anytime plants are actively growing, but at least 4 weeks before the first killing frost in the fall. Reapply, if new growth appears. Handle dead plants with rubber gloves. Dispose of plants and rubber gloves in tightly sealed garbage bags.

WHEN TO REPLANT [optional illustration]

- · All ornamental flowers, trees and shrubs may be planted 2 days after application.
- · Lawn grasses may be planted 7 days after application.

HOW IT WORKS [optional illustration]

MON 78307 (Roundup) enters plants through foliage and moves systemically to the roots, killing weeds by stopping the production of a substance found in plants. Any product (Roundup) not absorbed by plants will be deactivated after it hits the soil. Weeds usually yellow and wilt within hours with complete kill in 1 to 2 weeks.

KILLS ALL TYPES OF WEEDS & GRASSES [optional illustration]

Weeds (including): Artichoke thistle, beggarweed, black medic, blue mustard, blue toadflax, brassbuttons, broadleaf plantain, burclover, buttercup, Canada thistle, cattail, chickweed, cocklebur, common groundsel, common mullein, common plantain, common ragweed, creeping beggarweed, creeping-charlie, curly dock, dandelion, dog fennel, evening primrose, false dandelion, fiddleneck, field bindweed (wild morningglory), field pennycress, filaree, Florida pusley, garden spurge, henbit, horsenettle, horseradish, horseweed/ marestail, iceplant, knapweed, knotweed, lambsquarters, lantana, little

bittercress, London rocket, mallow, mayweed, milkweed, mouseear chickweed, narrowleaf (buckhorn) plantain, nightshade (silverleaf), oldenlandia, oxalis, Pennsylvania smartweed, pennywort, poison hemlock, prickly lettuce, primrose, prostrate spurge, puncturevine, ragweed, red clover, redroot pigweed, shepherdspurse, smooth catsear, smooth pigweed, sowthistle, spotted spurge, tansy ragwort, tansymustard, teaweed, trumpetcreeper, tumble mustard, Virginia creeper, white clover, whitetop, wild barley, wild mustard, wild oats, wild sweet potato, yellow starthistle, and other broadleaf weeds

Grasses (including): Annual bluegrass, annual ryegrass, bahiagrass, barnyardgrass, bentgrass, Bermudagrass, bromegrass, Cogongrass, crabgrass, creeping bentgrass, dallisgrass, fall panicum, fescue, field sandbur, foxtail, goosegrass, guineagrass, Johnsongrass, Kentucky bluegrass, kikuyugrass, lovegrass, maidencane, nimblewill, nutsedge, orchardgrass, pampas grass, perennial ryegrass, purple nutsedge, quackgrass, sandspur, smooth bromegrass, sprangletop, St. Augustinegrass, tall fescue, Texas panicum, Timothy, torpedograss, vaseygrass, witchgrass, yellow nutgrass, zoysia and other grassy weeds

Brush (Tough Weeds), Unwanted Trees, Shrubs & Vines (including):

Alder, ash, (quacking) aspen, blackberry, bluegum eucalyptus, broom (French, Scotch), buckwheat, ceanothus, chamise, cherry, coyote brush, dewberry, elderberry, elm, eucalyptus, giant reed, hawthorn, hazel, honeysuckle, kudzu, locust, madrone, maple, oak, persimmon, poison oak, poison ivy, poplar, raspberry, sage, sagebrush, salmonberry, saltcedar, sassafras, sumac, sweetgum, tan oak, thimbleberry, tree tobacco, wild rose (multiflora) willow and other tough weeds

STORAGE AND DISPOSAL [trash can illustration]

STORAGE: Store in original container in a safe place.

DISPOSAL: Empty Container: Put in trash. (Recycle where available.) **Partially Full Container**: Call your local waste disposal service (1-800-CLEANUP). If local laws permit, put partially full container in trash. Never pour product down any drain.

HOW TO REFILL ROUNDUP READY-TO-USE CONTAINERS

24 fl oz Roundup Weed & Grass Killer1 Ready-To-Use:

To empty container add 2 fl oz of MON 78307 (Roundup Concentrate) then fill with water very slowly to avoid foaming.

• 1/2 Gallon Roundup Weed & Grass Killer1 Ready-To-Use:

To empty container add 5 fl oz of MON 78307 (Roundup Concentrate) then fill with water very slowly to avoid foaming.

Gallon Roundup Weed & Grass Killer1 Ready-To-Use:

To empty container add 10 oz of MON 78307 (Roundup Concentrate) then fill with

MON 78307 Herbicide EPA Reg No. 71995-EO water very slowly to avoid foaming.

• 1.33 Gallon Roundup PNS (II):

To empty container add 13 fl oz of MON 78307 (Roundup Concentrate) then fill with water very slowly to avoid foaming.

• 6L Roundup Weed & Grass Killer1 Ready-To-Use:

To empty container add 16 fl oz of MON 78307 (Roundup Concentrate) then fill with water very slowly to avoid foaming.

• 2 Gallon Roundup Weed & Grass Killer1 Ready-To-Use:

To empty container add 20 fl oz of MON 78307 (Roundup Concentrate) then fill with water very slowly to avoid foaming.

PRECAUTIONARY STATEMENTS [optional illustration]

[re-entry icon] People and pets may enter treated area after spray has dried.

HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION:

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

Harmful if inhaled. Avoid breathing spray mist. Remove contaminated clothing and wash clothing before reuse.

	·					
FIRST AID						
If in eyes	 Hold eye open and rinse slowly and gently for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. Call a poison control center (1-800-225-2883 or 1-888-768-6387 or 1-888-Roundup) or doctor for treatment advice. 					
If inhaled	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center (1-800-225-2883 or 1-888-768-6387 or 1-888-Roundup) or doctor for treatment advice. 					
	Emergency Medical Information					
center or do	roduct container or label with you when calling a poison control octor, or going for treatment. You may contact 1-800-225-2883 -6387 or 1-888-Roundup) for emergency medical treatment					

ENVIRONMENTAL HAZARDS: This product is toxic to aquatic invertebrates. Do not apply directly to any body of water. Do not contaminate water when disposing of equipment washwaters.

NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.

This product is protected by U.S. Patents No. 5,683,958 and No. 5,703,015 and No. 6,063,733 and No. 6,121,199 and No. 6,121,200. Other patents pending. No license granted under any non-U.S. patent(s).

This is an end-use product. Monsanto does not intend and has not registered if for reformulation or repackaging.

[phone icon] Questions, Comments or Medical Information call 1-800-225-2883 www.roundup.com (call 1-888-Roundup)

Roundup is a trademark of Monsanto Company

©[__] MONSANTO COMPANY

Manufactured for
Monsanto Company, Lawn & Garden Products
P.O. Box 1750
Columbus, OH 43216
Form [____]
EPA Reg. No. 71995-EO
EPA Est. 239-IA-3I, 58996-MO-1A
Superscript is first letter of lot number
Made in USA

APPENDIX 1 - Consolidated List of Label Claims

[Ordered alphabetically]

- · Absorbed into both broadleaf and grassy weeds
- Absorbs on contact, starts working immediately
- Absorbs 3 times (X) faster to the root than competitive brands for quicker, more effective root kill
- · Approved for most (many) lawn and garden uses
- Before [weed graphics] / After [weed graphics]
- · Begins absorbing on contact
- Can be used for habitat restoration, controlling exotic vegetation, and for site preparation of wildlife food plots
- · Can reseed or sod lawns 7 days after treatment
- · Concentrated for extra value
- Contains FastAct™ (technology)
- Dare to compare (a picture is worth 1,000 words): Roundup works faster than any competitor (imitator)
- Dead Weeds Guaranteed
- Dead Weeds Guaranteed or Your Money Back
- Dead (weeds) in a day
- Does not have soil activity
- Economical
- · Economical concentrate formula
- Easy to apply with a tank or (hand held) trigger sprayer
- Even if it rains Roundup won't lose its effectiveness
- Exclusive Roundup formula
- Experience the Roundup Advantage (peel back this panel for detail) (see details inside / underneath this booklet) (see details on back panel)
- Fast-acting formula
- Fast-acting formula works twice as fast (50% faster)
- Fast-acting formula absorbs to root more quickly
- Faster than ever
- Fastest Roundup (formulation) ever
- For control that doesn't (won't) wash away
- For general weed control kills weeds and grasses in 2 to 4 weeks roots and all
- For weeds that are dead in a (one) day
- Guaranteed same effective results even if it rains within hours
- Guaranteed effective: Kills over 200 types of weeds and grasses, roots and all, with

just one application

- Guaranteed (we guarantee it)
- Ideal for killing unwanted weeds and grasses throughout your yard. Use along fences; in cracks of walks, drives and patios; and around flower beds, trees and shrubs
- Imitators (competitors) (other weedkillers) cannot match Roundup's proven performance: [picture of Roundup versus generic competitors]
- · Improved extra strength formula
- Improved formula, completely kills even the toughest weeds and grasses
- Keeps driveways, walkways, landscaping beds, and flower gardens weed-free all season long
- Kills almost all (annual and perennial) weeds, grasses and other unwanted plants
- · Kills existing weeds only, no residual activity in soil
- · Kills more weeds in more places.
- Kills over 100 weeds
- Kills (to) the root
- Kills (the toughest weeds and grasses) the root so weeds (they) don't come back
- Kills the root so weeds don't come back
- Kills the roots of (both) broadleaf and grassy weeds
- Kills the weed you see and the root you don't
- Kills unwanted weeds and grasses, roots and all
- Kills weeds in flowerbeds, around trees, shrubs and fences, and on patios, paths, sidewalks, sidewalk cracks, walkways, driveways, and other areas in your yard
- · Kills weeds, roots and all
- Lawns and gardens can be reseeded or planted soon after treatment
- Make only what you need
- Multipurpose grass and broadleaf weed control
- NEW!
- Next day (this weekend) results: Begins killing on contact, visible results in 24 hours
- No odor
- No root. No weed. No problem.
- Nobody kills more weeds
- Nobody's better than Roundup
- Nobody's faster
- Nobody's better
- · Nothing is more effective
- Nothing works better
- Nothing kills more weeds
- · NOW!
- · Now a shorter wait for replanting!
- · Once it enters the plant, it won't wash off
- One application kills over 200 types of weeds and grasses, roots and all (maximum effectiveness)
- Only Roundup's effectiveness (formula) won't be washed away by rain or watering 2

MON 78307 Herbicide EPA Reg No. 71995-EO hours (1 hour)(30 minutes) after treatment

- Proven (trusted) performance: Only Roundup works the first time, every time and has for 25 years
- Provides maximum control: Kills weeds to the root so they don't ever come back
- Quick kill formula (the toughest)
- Quick-action formula lets you see results 50% faster than other brands
- Quick-action formula lets you see results two times faster than other brands
- Ornamental gardens can be reseeded or planted 1 day after treatment
- RainFast in hours enters the plant on contact
- RAIN-PROOF™ (Mistake Proof)
- RAIN-PROOF™ in two hours (30, 60, or 90 minutes)
- Roundup can be used (almost) anywhere weeds and grasses grow, including patios, walkways, and driveways; along fences; in landscaping beds; or around flowers, shrubs and trees
- (Roundup) Kills the weed you see and the root others leave behind
- Roundup's exclusive (patented) formula (technology) kills to the root so weeds don't come back
- Roundup kills weeds and grasses in Patios Driveways Sidewalks Ornamental Gardens and other non-lawn areas
- · Satisfaction guaranteed or we will gladly refund purchase price
- Satisfaction guaranteed or your money back with proof of purchase
- · See results in hours
- See results in 24 hours
- Speeds absorption to the root for complete kill
- Spray weeds (Use) in flowerbeds, around trees, shrubs and around fences, and on patios, paths, sidewalks, sidewalk cracks, walkways, driveways, and other areas in your yard
- Starts to kill in hours
- Starts working immediately (in hours)
- Stronger
- The best weed killer you can buy guaranteed (we guarantee it)
- The fastest weed killer (starts working immediately)
- The fastest concentrate formula
- The most effective weed (and grass) killer (you can buy)
- The strongest weed and grass killer you can buy: Guaranteed
- Superior results
- Transorb technology speeds Roundup to the root to kill even tough weeds
- Twice as fast
- Ultra concentrated formula
- Ultra formula
- (Use) For Brush Control
- (Use) For General Weed Control: Use along fences, paths, patios, sidewalks and driveways, around trees, shrubs, ornamental plantings, flowerbeds, and buildings, and in brick and gravel walkways.

MON 78307 Herbicide EPA Reg No. 71995-EO

- Use to trim and edge landscape areas.
- (Use) For Spot Spraying: Use in and around flowerbeds, ornamental trees, shrubs, fences, driveways and walkways
- (Use) For Stumps
- (Use in) Apply with a Big Shot™ Multi-Purpose Sprayer or other tank sprayer, or a (hand held) trigger sprayer
- Visible effects are gradual wilting and yellowing advancing to complete browning and root destruction.
- Water based formula
- · Won't wash off
- · Won't wash away
- · Works first time, every time
- Works in hours
- · Works only when absorbed by the foliage of weeds

[Promotional options]

- Save up to \$[x] on (your) next purchase
- Free weed guide inside
- Free [] with this purchase of Roundup concentrate quart
- FREE REFILL
- FREE SAMPLE
- SAMPLE NOT FOR SALE

APPENDIX 2 - Packaging Related Claims

NET xx fl oz (qt or gal) (xx mL or L) 6 fl oz (177 mL) 13 oz (384 mL) 16 fl oz (1 pt) (473 mL) 32 fl oz (1 qt) 946 mL) 53.7 fl oz (0.42 gal) (1.5 L) 64 fl oz (1/2 gal) (1.89 L) 128 fl oz (1 gal) (3.79 L)

[corner flap] OPEN

Resealable Label for Directions & Precautions

PULL HERE TO OPEN LABEL

PEEL HERE

PEEL OPEN FOR USE DIRECTIONS AND FURTHER INFORMATION PRESS TO RESEAL

[Net contents] Makes up to 'X' gallons

Makes between 'X' - 'Y' gallons

Mix with water to make 'X' gallons of spray solution

Covers up to 'Z' sq ft

Mix with water to cover up to 'Z' sq ft

[$X = net contents \div 3$] [$Y = net contents \div 6$] [Z = X * 300]

[Pint] Makes up to 5 gallons

Makes between 21/2 - 5 gallons

Mix with water to make 5 gallons of spray solution

Covers up to 1,500 sq ft

Mix with water to cover up to 1,500 sq ft

[Quart] Makes up to 10 gallons

Makes between 5 - 10 gallons

Mix with water to make 10 gallons of spray solution

Covers up to 3,000 sq ft

Mix with water to cover up to 3,000 sq ft

[0.42 Gallon] Makes up to 18 gallons

Makes between 9 - 18 gallons

Mix with water to make 18 gallons of spray solution

Covers up to 5,400 sq ft

MON 78307 Herbicide EPA Reg No. 71995-EO Mix with water to cover up to 5,400 sq ft

[Half Gallon] Makes up to 21 gallons

Makes between 10 - 21 gallons

Mix with water to make 21 gallons of spray solution

Covers up to 6,300 sq ft

Mix with water to cover up to 6,300 sq ft

[Gallon] Makes up to 42 gallons

Makes between 21 - 42 gallons

Mix with water to make 42 gallons of spray solution

Covers up to 12,600 sq ft

Mix with water to cover up to 12,600 sq ft

New! Larger size, covers up to ['Z'] sq ft

With (the convenient) measuring cup, mixing MON 78307 (controlling weeds around your home) has never been easier

With (the convenient) measuring cup, controlling weeds all around your home has never been this fast and easy

			(39) 1 ecc es - e						
]	1.			he.	£ 100.	-		
1	5/01	111. A	ction t	erren	£308 1	12. 347	1 0 0 m 0 0 a	1	
112	3/01					7	•••	**	
12	A EVIEW TYPE	CO	EWER OE NUM	SIGNATURE OF REVIEWER	COM.	74.7 °	64.6M CS4	ALTR.	
1		1	1		7	1		1	
1		1				1		+	
1		1.				1		+	
0	**************************************	1	1	3				1	
•	0000007 WANAGER TEAM 000000000000000000000000000000000000					1		1	
p	P400447 WARRED	1		v kav	NAC	110	30	01	
g		1	ľ				1	- 1	
н		1	1		1		1	1	
1		1	1			1			
J		1							
K	426 00 C= - C= 0: C: 06	1	1				1	1	
L		1				ı			
м		1				1			
N	656 68 amen 613407667407 67516467	1					1		
9	CHEWSTRY SO LINES RESIDUE CHEWSTRY	1	1						
•		1	1				T	1	
a	74 114 00.447 GRANEN	1	1 3						
R		-				1			
8		1.					1	T	
7		-	-			1	+	+	

FRA Form 4430-14 12-201

DATE OUT: 11 Oct 2001

SUBJECT: EP [x][] PRODUCT CHEMISTRY REVIEW

DP BARCODE No.: D278249

REG./File Symbol No.: 71995-EO PRODUCT NAME: MON 78307 Herbicide

COMPANY: Monsanto

TO: PM #25, Jim Tompkins/Vickie Walters

Herbicide Branch

Registration Division (7505C)

FROM: Bruce F. Kitchens, Chemist

Bruce 7. Kaleke Technical Review Branch Registration Division (7505C)

INTRODUCTION:

The registrant, Monsanto Company, is submitting an application for the registration of the new end-use product, Mon 78307 Herbicide. The active ingredients in this product are Glyphosate isopropylamine and diquat dibromide at a label nominal concentration of 18.0 and 0.73% a.i., respectively. This product is intended for use as an herbicide. In support of this request, the registrant has submitted alternate and basic Confidential Statements of Formula (CSFs) dated 04 May 2001, a draft label, and product chemistry data contained in MRID# 454106-01. The Technical Review Branch (TRB) has been asked to review this submission.

SUMMARY OF FINDINGS:

TRB has reviewed this submission and reports the following findings:

- This product is produced from a registered source of the active ingredient.
- All inert ingredients are cleared for use in formulated 2. products.
- The active ingredient nominal concentration listed on the 3. draft label and the CSF are the same.
- The draft label contains the appropriate storage and 4. disposal statements.
- The active ingredient certified limits as proposed on the 5. CSF are acceptable.

6. The proposed alternate and proposed basic CSFs have the same active ingredient concentration and the same certified limits.

CONCLUSIONS:

TRB has reviewed this submission and concludes the following:

- 1. The proposed alternate and basic formulation CSFs dated 04 May 2001 are acceptable.
- 2. This submission meets the data requirements as specified in 40 CFR 158.155, 158.160, 158.165, 158.167, 158.175, and 158.180 with respect to product identity and composition, description of materials used to produce the product, description of formulation process, discussion of formation impurities, certified limits, and enforcement analytical method.

A preliminary analysis was conducted on 5 lots of laboratory prepared end-use product. A mean percent of 17.98 and 0.74% was obtained for the isopropylamine salt of glyphosate and diquat dibromide, respectively. These values are similar to the stated concentration on the CSFs and the label.

3. This submission also satisfies the data requirement as specified in 40 CFR 158.190 with respect to physical and chemical characteristics.

Storage stability and corrosion characteristics studies are in progress and will be submitted to the Agency when completed. An accelerated aging study conducted at 55° C for 2 weeks showed no degradation of the active ingredients.

4. This submission meets the criteria as specified in 40 CFR 152.43 with respect to alternate formulations.

EP [x] MP [] PRODUCT CHEMISTRY REVIEW

1.	DP BARCODE No.: <u>D278249</u> 2. REG./File Symbol No.: <u>71995-EO</u>
3.	Registration [x] 4. Reregistration [], Rereg Case No
5.	Product Name: MON 78307 Herbicide
6.	Pesticide Type: Fungicide [] Herbicide [x] Insecticide [] Rodenticide [] Antimicrobial [] Plant Growth Regulator [] Others:
7.	Uses: Food [] Non food use [x]
8.	Type of Submission: New [x] Resubmission [] Amendment [] "ME-TOO" [] Alternate Formulation [] Repack [] Experimental Use Permit [] Other (Specify)
9.	If "Me-TOO" Registration, this product is [] is not [] similar or substantially similar to EPA's Reg. No.:,
	If not, comment in Confidential Appendix A on the differences between the registered and the new source where significant.
CON:	FIDENTIAL STATEMENT OF FORMULA, DATED (04 May 2001):
10.	Type of formulation and the sources of active ingredients:
	a. Non-integrated formulation system[x]
	<pre>b. Are all technical grade active ingredients used registered?</pre>
	c. Integrated formulation system
11.	Composition: The nominal concentrations (NC) of the active ingredients and the upper and lower certified limits (UCL & LCL) are as follows:
	% by weight
	Active ingredient(s) NC UCL LCL Glyphosate, IPA 18.0 18.6 17.4 Diquat Dibromide 0.73 0.9 0.7

12.	The calculated NCs, based on the pure active ingredients (PAI), are identical to those on the label:
	yes [x] no []
13.	The certified limits are within the standard limits as per 40CFR§158.175 or are adequately explained if different:
	yes [x] no []
14.	Clearance of intentionally added ingredients in the formulation for the intended use:
	a. Formulation intended for food use under 40CFR§180.1001:
	yes [] no [x] Some are cleared, others are not []
	Cleared under list: c [] d [] e []
	b. Formulation intended for non-food use:
	yes [x] no [] Some are cleared, others are not []
15.	For products produced by an integrated formulation system: All impurities of toxicological significance have an UCL:
	yes [] no [] not applicable [x]
	All other impurities 0.1% associated with the active ingredient in the product are reported at their nominal concentrations:
	yes [] no [] not applicable [x]
PROD	UCT LABEL, EPA RECEIVED (draft):
16.	The active ingredients statement (chemical identities, nominal concentrations) is consistent with the CSF yes [x] no []
17.	The formulation contains one of the following: 10% or more of a petroleum distillate: yes [] no [x] 1% or more of methyl alcohol: yes [] no [x] sodium nitrite at any level: yes [] no [x] a toxic List 1 inert at any level: yes [] no [x] arsenic in any form: yes [] no [x]

18.	If yes to any of statement contain		_	
	yes []	no []	not ap	plicable [x]
19.	The appropriate regarding flamma product are given	bility or exp	losive character	
	yes []	no []	not ap	plicable [x]
20.	The storage and container are in use products or h	compliance wit	h PR Notice 84-1	for household
	yes	s [x]	no []	

PRODUCT CHEMISTRY DATA (GROUP A)

21. Chemical IDs/Manufacture/ Analytical Information	Data Required Fulfilled	MRID No.
830-1550 Chemical Identity	Y	454106-01
830-1600 Description of Materials Used to Produce the Product	Y	11
830-1620 Description of Production Process	NR	
830-1650 Description of Formulation Process	Y	454106-01
830-1670 Discussion of Impurities	Y	ıı ,
830-1700 Preliminary Analysis	NR	
830-1750 Certified Limits	Y	454106-01
830-1800 Enforcement Analytical Method	Y	II

PRODUCT CHEMISTRY DATA (GROUP B)

24. Physical/Chemical Properties	Data Required Fulfilled	Value or Qualitative Description	MRID No.
830-6302 Color	Y	light amber	454106-01
830-6303 Physical State	Y	Liquid	п
830-6304 Odor	Y	Musky	п
830-6314 Oxidation/Reduction:Chemical Incompatability	Y	Slowly oxidized 1% KMnO ₄ , slowly reduced by Zn, No reaction with NH ₄ H ₂ PO ₄	II
830-6315 Flammability/Flame Extension	Y	Did not flash	п
830-6316 Explodability	Y	No exotherm when held at 250°C for 2 hrs.	11
830-6317 Storage Stability of Product	I	One year study in progress (see PR-Notice 92-5)	
830-6319 Miscibility	NA	Product not mixed with hydrocarbon solvents	
830-6320 Corrosion Characteristics	I	One year study in progress	
830-6321 Dielectric Breakdown Constant	NA		
830-7000 pH	Y	4.69 @ 25°C	454106-01
830-7100 Viscosity	Y	20°C- centipoise/rpm 60.1/6, 55.1/12, 59.6/30, 60.0/60 40°C- centipoise/rpm 42.61/6, 41.4/12, 43.6/30, 41.9/60	"
830-7300 Density	Y Y	1.0747	rements Were

Explanations: Y = The Requirements Were Fulfilled; N = The Requirements Were Not Fulfilled; NA = Not Applicable; G = Data Gap; U = Requires Upgrading; I = Incomplete or In Progress; W = Waived.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES **TOXIC SUBSTANCES**

28/SEPT/2001

MEMORANDUM

Subject:

Name of Pesticide Product: MON 78307

EPA Reg. No. /File Symbol: 71995-EO

DP Barcode:

D278076

Case No:

070602

PC Code:

032201, 103601

From:

Eugenia McAndrew, Biologist & M

Technical Review Branch

Registration Division (7505C)

To:

Vickie Walters, PM Team 25

Herbicide Branch

Registration Division (7505C)

Applicant:

Monsanto Co.

800 N. Lindbergh Blvd.

St. Louis, MO 63167

FORMULATION FROM LABEL:

Active Ingredient(s):

% by wt.

103601

Glyphosate, isopropylamine salt

25.0

032201

Diquat dibromide

0.73

Inert Ingredient(s):

74.27

Total:

100.00%

ACTION REQUESTED: PM requests review of acute toxicity data for MON 78307, EPA File Symbol 71995-EO.

BACKGROUND: Monsanto Co. has submitted a six pack of acute toxicity studies in support of registration of MON 78307, EPA File Symbol 71995-EO. The studies were assigned MRID numbers 454106-02 to -07. The studies were conducted at Springborn Laboratories, Inc., Spencerville, Ohio.

The acute oral, acute dermal, primary eye irritation and primary skin irritation studies were conducted on MON 78567 which is identical to MON 78307 except that the percent glyphosate is lower in the MON 78307 formulation. The acute inhalation and dermal sensitization studies were conducted on MON 78408 which contains higher levels of active and inert ingredients than MON 78307.

RECOMMENDATIONS: The six studies have been reviewed and are classified as acceptable.

The acute toxicity profile for MON 78307, EPA File Symbol 71995-EO, is as follows:

acute oral toxicity	IV	Acceptable	MRID 4541	06-02
acute dermal toxicity	IV	Acceptable	MRID 4541	06-03
acute inhalation toxicity	Ш	Acceptable	MRID 4541	06-04
primary eye irritation	Ш	Acceptable	MRID 4541	06-05
primary skin irritation	IV	Acceptable	MRID 4541	06-06
dermal sensitization	No	Acceptable	MRID 4541	06-07

LABELING: Based on the toxicity profile above, the following are the precautionary and first aid statements for this product as obtained from the Label Review System.

ID #: 071995-00029 MON 78307 Herbicide

SIGNAL WORD: CAUTION

PRECAUTIONARY STATEMENTS:

Harmful if inhaled. Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing spray mist. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

STATEMENT OF PRACTICAL TREATMENT (SOPT):

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

DATA EVALUATION RECORD

STUDY TYPE: ACUTE ORAL TOXICITY TESTING (870.1100 formerly §81-1)

Product Manager: 25 Reviewer: Eugenia McAndrew

TEST MATERIAL PURITY: MON 78567; 0.73% diquat bromide, 19.01% glyphosate acid (a.e.)

[25.6% isopropylamine salt of glyphosate]

<u>CITATION:</u> Bonnette, K. (2001) MON 78567; acute oral toxicity in rats. Springborn Laboratories, Inc., Spencerville, Ohio. Laboratory Report Number 3044.830. April 2, 2001. MRID 454106-02. Unpublished.

SPONSOR: Monsanto Co., 800 N. Lindbergh Blvd., St. Louis, MO 63167

EXECUTIVE SUMMARY: In an acute oral toxicity study, five young adult Hsd: Sprague-Dawley SD rats/sex (Weight: 297-320 g males; 201-230 g females; Source: Charles Rivers, Portage, MI, Boyertown, PA) were given a single oral dose of MON 78567 (0.73% diquat bromide, 19.01% glyphosate acid (a.e.) [25.6% isopropylamine salt of glyphosate]; Lot No. GLP-0102-10951-F; pale amber liquid) at 5000 mg/kg (limit dose). The test substance was administered as received. Animals were observed for clinical signs of toxicity and mortality for 14 days post dosing.

Oral LD₅₀ Males = > 5000 mg/kg (observed); Oral LD₅₀ Females = > 5000 mg/kg (observed)

MON 78567 is classified as Toxicity Category IV based on the calculated LD₅₀ value in both sexes.

All animals survived and gained bodyweight during the study. Clinical signs noted were mucoid stools, soft stools, few feces, dark material around the facial area and fecal staining. The animals recovered from these symptoms by day 3. No gross abnormalities were noted at necropsy.

This study is classified as Acceptable (870.1100) and satisfies the guideline requirement for an acute oral study in the rat.

COMPLIANCE: Signed and dated GLP, Quality Assurance and Data Confidentiality statements were provided.

RESULTS:

December (marthum)	Number of Deaths/Number Tested			
Dosage (mg/kg)	Males	Females	Combined	
5000	0/5	0/5	0/10	

<u>OBSERVATIONS:</u> All animals survived and gained bodyweight during the study. Clinical signs noted were mucoid stools, soft stools, few feces, dark material around the facial area and fecal staining. The animals recovered from these symptoms by day 3.

GROSS NECROPSY: No gross abnormalities were noted at necropsy.

DATA EVALUATION RECORD

STUDY TYPE: ACUTE DERMAL TOXICITY TESTING (870.1200 formerly §81-2)

Product Manager: 25

Reviewer: Eugenia McAndrew

TEST MATERIAL PURITY: MON 78567; 0.73% diquat bromide, 19.01% glyphosate acid (a.e.) [25.6% isopropylamine salt of glyphosate]

<u>CITATION:</u> Bonnette, K. (2001) MON 78567; acute dermal toxicity in rats. Springborn Laboratories, Inc., Spencerville, Ohio. Laboratory Report Number 3044.831. April 2, 2001. MRID 454106-03. Unpublished.

SPONSOR: Monsanto Co., 800 N. Lindbergh Blvd., St. Louis, MO 63167

EXECUTIVE SUMMARY: In an acute dermal toxicity study, five young adult Hsd: Sprague-Dawley SD rats/sex (Weight: 199-246 g males; 162-198 g females; Source: Harlan Sprague Dawley, Inc., Indianapolis, IN) were dermally exposed to a single application of MON 78567(0.73% diquat bromide, 19.01% glyphosate acid (a.e.) [25.6% isopropylamine salt of glyphosate]; Lot No. GLP-0102-10951-F; pale amber liquid) at 5000 mg/kg (limit dose) for 24 hours. The test substance was applied as received to approximately 10% of the total body surface area. Animals were observed for clinical signs of toxicity and mortality following patch removal on day 1 and once daily for 14 days.

Dermal LD₅₀ Males = > 5000 mg/kg (observed); Dermal LD₅₀ Females = > 5000 mg/kg (observed)

MON 78567 is classified as Toxicity Category IV based on the observed LD₅₀ values in both sexes.

All animals survived the study. Four animals lost weight the first week but all animals exceeded initial weights by the end of the study. Clinical signs included dark material around the nose/mouth, ocular discharge and urine stain. The animals recovered from these symptoms by day 9. Dermal irritation observed included grades 1 and 2 erythema and edema, desquamation, blanching, superficial lightening in focal and/or pinpoint areas and eschar at three sites. Dermal irritation outside of the test site was also noted in all animals. No gross abnormalities were noted at necropsy.

This study is classified as Acceptable (870.1200) and satisfies the guideline requirement for an acute dermal study in the rat.

COMPLIANCE: Signed and dated GLP, Quality Assurance and Data Confidentiality statements were provided.

RESULTS:

Danaga (mag/km)	Numb	Tested	
Dosage (mg/kg)	Males	Females	Combined
5000	0/5	0/5	0/10

<u>OBSERVATIONS:</u> All animals survived the study. Four animals lost weight the first week but all animals exceeded initial weights by the end of the study. Clinical signs included dark material around the nose/mouth, ocular discharge and urine stain. The animals recovered from these symptoms by day 9. Dermal irritation observed included grades 1 and 2 erythema and edema, desquamation, blanching, superficial lightening in focal and/or pinpoint areas and eschar at three sites. Dermal irritation outside of the test site was also noted in all animals.

GROSS NECROPSY: No gross abnormalities were noted at necropsy.

DATA EVALUATION RECORD

STUDY TYPE: ACUTE INHALATION TOXICITY TESTING (870.1300 formerly §81-3)

Product Manager: 25

Reviewer: Eugenia McAndrew

TEST MATERIAL PURITY: MON 78408; 1.46% diquat bromide, 18.46% glyphosate acid (a.e.) [24.9% isopropylamine salt of glyphosate]

<u>CITATION:</u> Bonnette, K. (2001) MON 78408; acute nose-only inhalation in rats. Springborn Laboratories, Inc., Spencerville, Ohio. Laboratory Report Number 3044.806. April 4, 2001. MRID 454106-04. Unpublished.

SPONSOR: Monsanto Co., 800 N. Lindbergh Blvd., St. Louis, MO 63167

EXECUTIVE SUMMARY: In an acute inhalation toxicity study, five young adult Hsd: Sprague-Dawley SD rats/sex (Weight: 209-232 g males; 169-193 g females; Source: Harlan Sprague Dawley, Inc., Indianapolis, IN) were exposed by nose only inhalation to MON 78408 (1.46% diquat bromide, 18.46% glyphosate acid (a.e.) [24.9% isopropylamine salt of glyphosate]; Lot No. GLP-0011-10690-F; pale amber liquid) at 0.49 mg/L, 0.89 mg/L and 2.33 mg/L for 4 hours. All animals were observed for clinical signs of toxicity and mortality during the exposure and for 14 days post exposure.

```
Inhalation LC_{50} Males = 1.05 mg/L (95% C.L. 0.74-1.47 mg/L) Inhalation LC_{50} Females = 1.05 mg/L (95% C.L. 0.74-1.47 mg/L) Inhalation LC_{50} Combined = 1.04 mg/L (95% C.L. 0.85-1.27 mg/L)
```

(Calculated by Probit Analysis according to Litchfield-Wilcoxon approximation)

MON 78567 is classified as Toxicity Category III based on the observed LC₅₀ values in both sexes.

At 0.49 mg/L, all animals survived the study. Clinical signs noted included activity decrease, gasping, labored breathing, congested breathing, rales, few/no feces, rough coat, slight hair loss, unkempt appearance, distended abdomen, urine/fecal staining, dark material around the eyes/nose, clear/red ocular discharge, nasal discharge, eyelids partially closed and decreased food consumption. Some of these symptoms persisted through the end of the study. All animals lost weight during the first week. Six of the animals exceeded initial weight by the end of the study. At necropsy, three of the animals had no gross abnormalities. Observations in the remaining seven animals included dark material present round the nose and mouth, distended small and large intestines with gas or black rubbery material in entire tracts, stomach distended with gas, body fat depletion, wet matting around the eyes, hair loss around eyes/nose, dark red or mottled lungs with portions of all lobes irregularly shaped.

At 0.89 mg/L, two animals died during the exposure and two females died by day 3. Clinical signs noted included those at the 0.49 mg/l exposure plus soft stools, piloerection, hunched posture, dehydration, dilated pupils, wobbly gait, shallow breathing, cool to touch, distended abdomen, grinding of teeth and scabs in mouth region. Two of the survivors gained weight and four lost weight. At necropsy, four of the survivors had no gross abnormalities. Observations in the decedents included abnormal contents in the duodenum, thin area of the diaphragm, portion of medial liver lobe misshapen, red mucoid material mixed with digesta in the jejunum, yellow staining of the urogenital and anogenital areas, abnormal content in small intestine, dark red lobes of lungs.

At 2.33 mg/L, all of the animals died by day 4. Clinical signs noted included those at the 0.49 mg/l and 0.89 mg/L exposures plus prostration and slow breathing. At necropsy, observations included distended cecum, wet matting and dried material on haircoat, distended ileum, accentuated lobular markings on liver, dark red lungs, distended stomach with foci and abnormal contents, dark red throid gland.

The analytical chamber concentrations were 0.49, 0.89 and 2.33 mg/L. The mass median aerodynamic diameters were estimated to be 2.6 μ m, 2.5 μ m and 2.9 μ m respectively.

This study is classified as Acceptable (870.1300) and satisfies the guideline requirement for an acute inhalation study in the rat.

COMPLIANCE: Signed and dated GLP, Quality Assurance and Data Confidentiality statements were provided.

RESULTS:

Exposure Concentration	Number of Deaths/Number Tested			
mg/L (Analytically Determined)	Males	Females	Combined	
0.49	0/5	0/5	0/10	
0.89	2/5	2/5	4/10	
2.33	5/5	5/5	10/10	

Chamber Atmosphere				
Analytical conc. mg/L	MMAD µm	GSD		
0.49	2.6	2.4		
0.89	2.1	2.5		
2.33	2.9	2.4		

Chamber Envi	Chamber Environment ^a					
Chamber Volume	100 L					
Airflow	40 LPM					
Temperature	65-75°F					
Relative Humidity	41-56%					

aNose only

<u>OBSERVATIONS:</u> At 0.49 mg/L, all animals survived the study. Clinical signs noted included activity decrease, gasping, labored breathing, congested breathing, rales, few/no feces, rough coat, slight hair loss, unkempt appearance, distended abdomen, urine/fecal staining, dark material around the eyes/nose, clear/red ocular discharge, nasal discharge, eyelids partially closed and decreased food consumption. Some of these symptoms persisted through the end of the study. All animals lost weight during the first week. Six of the animals exceeded initial weight by the end of the study.

At 0.89 mg/L, two animals died during the exposure and two females died by day 3. Clinical signs noted included those at the 0.49 mg/l exposure plus soft stools, piloerection, hunched posture, dehydration, dilated pupils, wobbly gait, shallow breathing, cool to touch, distended abdomen, grinding of teeth and scabs in mouth region. Two of the survivors gained weight and four lost weight.

At 2.33 mg/L, all of the animals died by day 4. Clinical signs noted included those at the 0.49 mg/L and 0.89 mg/L exposures plus prostration and slow breathing.

GROSS NECROPSY: At 0.49 mg/L, three of the animals had no gross abnormalities. Observations in the remaining seven animals included dark material present round the nose and mouth, distended small and large intestines with gas or black rubbery material in entire tracts, stomach distended with gas, body fat depletion, wet matting around the eyes, hair loss around eyes/nose, dark red or mottled lungs with portions of all lobes irregularly shaped.

At 0.89 mg/L, four of the survivors had no gross abnormalities. Observations in the decedents included abnormal contents in the duodenum, thin area of the diaphragm, portion of medial liver lobe misshapen, red mucoid material mixed with digesta in the jejunum, yellow staining of the urogenital and anogenital areas, abnormal content in small intestine, dark red lobes of lungs.

At 2.33 mg/L, observations included distended cecum, wet matting and dried material on haircoat, distended ileum, accentuated lobular markings on liver, dark red lungs, distended stomach with foci and abnormal contents, dark red thyroid gland.

DATA EVALUATION RECORD

STUDY TYPE: PRIMARY EYE IRRITATION TESTING (870.2400 formerly §81-4)

Product Manager: 25 Reviewer: Eugenia McAndrew

TEST MATERIAL PURITY: MON 78567; 0.73% diquat bromide, 19.01% glyphosate acid (a.e.) [25.6% isopropylamine salt of glyphosate]

<u>CITATION:</u> Bonnette, K. (2001) MON 78567; primary eye irritation in rabbits. Springborn Laboratories, Inc., Spencerville, Ohio. Laboratory Report Number 3044.833. April 2, 2001. MRID 454106-05. Unpublished.

SPONSOR: Monsanto Co., 800 N. Lindbergh Blvd., St. Louis, MO 63167

EXECUTIVE SUMMARY: In a primary eye irritation study, 0.1 mL of MON 78567(0.73% diquat bromide, 19.01% glyphosate acid (a.e.) [25.6% isopropylamine salt of glyphosate]; Lot No. GLP-0102-10951-F; pale amber liquid) was placed into the conjunctival sac of the right eye of three adult New Zealand White rabbits (2 male and 1 female; Source: Myrtle's Rabbitry, Thompson Station, TN). All animals were observed for ocular irritation at 1, 24, 48 and 72 hours post-installation.

MON 78567 is classified as Toxicity Category III based on the observations and resolution of ocular irritation by 72 hours.

Iritis was noted in 3/3 eyes at the one hour observation resolving by 24 hours. Conjunctivitis was noted in 3/3 eyes resolving by 72 hours.

This study is classified as Acceptable (870.2400) and satisfies the guideline requirement for a primary eye irritation study in the rabbit.

COMPLIANCE: Signed and dated GLP, Quality Assurance and Data Confidentiality statements were provided.

RESULTS:

	Number "positive"/number tested Hours			
Observations				
	1	24	48	72
		Unwasi	ned eyes	
Corneal Opacity	0/3	0/3	0/3	0/3
Iritis	3/3	0/3	0/3	0/3
Conjunctivae:				
Redness*	3/3	1/3	2/3	0/3
Chemosis*	3/3	0/3	0/3	0/3
Discharge*	0/3	1/3	1/3	0/3

^{*}Score of 2 or more required to be considered "positive."

<u>OBSERVATIONS:</u> Iritis was noted in 3/3 eyes at the one hour observation resolving by 24 hours. Conjunctivitis was noted in 3/3 eyes resolving by 72 hours.

DATA EVALUATION RECORD

STUDY TYPE: PRIMARY DERMAL IRRITATION TESTING (870.2500 formerly §81-5)

Product Manager: 25 Reviewer: Eugenia McAndrew

TEST MATERIAL PURITY: MON 78567; 0.73% diquat bromide, 19.01% glyphosate acid (a.e.) [25.6% isopropylamine salt of glyphosate]

<u>CITATION:</u> Bonnette, K. (2001) MON 78567; primary skin irritation in rabbits. Springborn Laboratories, Inc., Spencerville, Ohio. Laboratory Report Number 3044.834. April 2, 2001. MRID 454106-06. Unpublished.

SPONSOR: Monsanto Co., 800 N. Lindbergh Blvd., St. Louis, MO 63167

EXECUTIVE SUMMARY: In a primary skin irritation study, three adult New Zealand White male rabbits (Source: Myrtle's Rabbitry, Thompson Station, TN) were dermally exposed to 0.5 mL of MON 78567 (0.73% diquat bromide, 19.01% glyphosate acid (a.e.) [25.6% isopropylamine salt of glyphosate]; Lot No. GLP-0102-10951-F; pale amber liquid) for 4 hours. The test substance was applied to a single 1 in² intact dose site on each animal. Animals were observed 1, 24, 48 and 72 hours after patch removal.

MON 78567 is classified as Toxicity Category IV based on the resolution of dermal irritation by 48 hours.

Primary Dermal Irritation Index (PDII) = 0.42 Very slight erythema was noted at all three test sites one hour after patch removal. All animals were free of dermal irritation by 48 hours.

This study is classified as Acceptable (870.2500) and satisfies the guideline requirement for an primary skin irritation study in the rabbit.

COMPLIANCE: Signed and dated GLP, Quality Assurance and Data Confidentiality statements were provided.

RESULTS: Primary Dermal Irritation Index (PDII) = 0.42

OBSERVATIONS: Very slight erythema was noted at all three test sites one hour after patch removal. All animals were free of dermal irritation by 48 hours.

DATA EVALUATION RECORD

STUDY TYPE: DERMAL SENSITIZATION TESTING (870.2600 formerly §81-6)

Product Manager: 25 Reviewer: Eugenia McAndrew

TEST MATERIAL PURITY: MON 78408; 1.46% diquat bromide, 18.46% glyphosate acid (a.e.)

[24.9% isopropylamine salt of glyphosate]

<u>CITATION:</u> Bonnette, K. (2001) MON 78408; dermal sensitization in guinea pigs. Springborn Laboratories, Inc., Spencerville, Ohio. Laboratory Report Number 3044.809. March 21, 2001. MRID 454106-07. Unpublished.

SPONSOR: Monsanto Co., 800 N. Lindbergh Blvd., St. Louis, MO 63167

EXECUTIVE SUMMARY: In a dermal sensitization study conducted with MON 78408 (1.46% diquat bromide, 18.46% glyphosate acid (a.e.) [24.9% isopropylamine salt of glyphosate]; Lot No. GLP-0011-10690-F; pale amber liquid), 30 young adult male and female Hartley-derived albino guinea pigs (Source: Hilltop Lab Animals, Scottdale, PA) were tested using methods based on those derived by Buehler. Preliminary testing was conducted to determine the correct concentrations for induction and challenge. Twenty test animals were induced with three applications (six hours/exposure, once per week for three weeks) of 0.3 mL of undiluted test substance. Twenty-seven days after the first induction dose, 0.3 mL of undiluted test substance was applied to the twenty test guinea pigs and to ten naive control guinea pigs for a six-hour challenge exposure. Reactions were scored 24 and 48 hours after each induction and after the challenge. A positive control study using α-Hexylcinnamaldehyde was conducted within six months of the main study to validate the test system.

MON 78567 is classified as a non-sensitizer based on the results of this study.

Slight patchy erythema was noted at 2/20 test animal sites during the induction phase. No dermal irritation was observed at the test animal sites or the naive control sites following the challenge. Based on these results, the test substance is not considered to be a contact sensitizer in guinea pigs. The positive response observed in the α -Hexylcinnamaldehyde study validates the test system used in this study.

This study is classified as Acceptable (870.2600) and satisfies the guideline requirement for an dermal sensitization study in the guinea pig.

COMPLIANCE: Signed and dated GLP, Quality Assurance and Data Confidentiality statements were provided.

PROCEDURE: In a dermal sensitization study conducted with MON 78408 (1.46% diquat bromide, 18.46% glyphosate acid (a.e) [24.9% isopropylamine salt of glyphosate]; Lot No. GLP-0011-10690-F; pale amber liquid), 30 young adult male and female Hartley-derived albino guinea pigs (Source: Hilltop Lab Animals, Scottdale, PA) were tested using methods based on those derived by Buehler. Preliminary testing was conducted to determine the correct concentrations for induction and challenge. Twenty test animals were induced with three applications (six hours/exposure, once per week for three weeks) of 0.3 mL of undiluted test substance. Twenty-seven days after the first

induction dose, 0.3 mL of undiluted test substance was applied to the twenty test guinea pigs and to ten naive control guinea pigs for a six-hour challenge exposure. Reactions were scored 24 and 48 hours after each induction and after the challenge. A positive control study using α -Hexylcinnamaldehyde was conducted within six months of the main study to validate the test system.

RESULTS: Slight patchy erythema was noted at 2/20 test animal sites during the induction phase. No dermal irritation was observed at the test animal sites or the naive control sites following the challenge. Based on these results, the test substance is not considered to be a contact sensitizer in guinea pigs. The positive response observed in the α -Hexylcinnamaldehyde study validates the test system used in this study.

ACUTE TOX ONE-LINERS

1. DP BARCODE:

D278076

2. PC CODE:

103601, 032201

3. CURRENT DATE: 28/SEPT/2001

4. TEST MATERIAL: MON 78567 (0.73% diquat bromide, 19.01% glyphosate acid (a.e.) [25.6%

isopropylamine salt of glyphosate]; Lot No. GLP-0102-10951-F; pale amber

liquid)

^aMON 78408 (1.46% diquat bromide, 18.46% glyphosate acid (a.e.)

[24.9% isopropylamine salt of glyphosate]; Lot No. GLP-0011-10690-F;

pale amber liquid)

Study/Species/Lab Study # /Date	MRID	Results	Tox. Cat.	Core Grade
Acute oral toxicity/rat Springborn Laboratories, Inc. 3044.830/4-2-01	454106-02	LD ₅₀ > 5000 mg/kg (males females combined)	IV	А
Acute dermal toxicity/rat Springborn Laboratories, Inc. 3044.831/4-2-01	454106-03	LD ₅₀ > 5000 mg/kg (males females combined)	IV	A
^a Acute inhalation toxicity/rat Springborn Laboratories, Inc. 3044.806/4-4-01	454106-04	LC ₅₀ > 1.04 mg/L (males females combined)	111	A
Primary eye irritation/rabbit Springborn Laboratories, Inc. 3044.833/4-2-01	454106-05	Iritis and conjunctivitis in 3/3 eyes resolving by 72 hours.	Ш	A
Primary dermal irritation/rabbit Springborn Laboratories, Inc. 3044.834/4-2-01	454106-06	PDII = 0.42 Mild irritant	IV	А
^a Dermal sensitization/guinea pig Springborn Laboratories, Inc. 3044.809/3-21-01	454106-07	Non-sensitizer	_	А

Core Grade Key: A =Acceptable, S = Supplementary, U = Unacceptable, V = Self Validated

454106-00

MONSANTO COMPANY
600 13TH STREET, NW
SUITE 660
WASHINGTON, D.C. 20205
http://www.monsanto.com

May 11, 2001

Hand Delivered

Document Processing Center (APPL)
Office of Pesticide Programs
U.S. Environmental Protection Agency
Room 266A, Crystal Mall 2,
1921 Jefferson Davis Highway
Arlington, VA 22202-4501

Attention:

Mr. Dan Rosenblatt

Acting Product Manager (Team 25)

Subject:

MON 78307 Herbicide (EPA Reg. No. 71995-XXX). Request for registration of

FO

new product.

Dear Mr. Rosenblatt:

Monsanto herein submits eight volumes, as R.D. 1537, in support of our application to register a new pesticide product, MON 78307 herbicide. MON 78307 is a soluble concentrate formulation containing the active substances glyphosate, in the form of its isopropylamine salt, and diquat dibromide.

The administrative volume contains Application for Pesticide Registration and other associated administrative materials, Confidential Statements of Formula, and a proposed master label. In addition, product chemistry and acute toxicology data are provided in support of this application.

Thank you in advance for your efforts to register MON 78307. Should you require any additional information or have any questions, please contact Dr. Marsha Gray at our Washington office (202) 783-2460 or me directly at (314) 694-8785 or rmmann@monsanto.com.

Sincerely,

Rhonda M. Mannion Registration Manager

lunda M M/am

cc: V. Walters
M. Gray
Mannion reading file

File room copy

U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs

MONSANTO COMPANY 600 13TH ST, NW., SUITE 660 WASHINGTON, DC 20005

Report of Analysis for Compliance with PR Notice 86-5

Thank you for your transmittal of 05/17/01. Our staff has completed a preliminary analysis of the material. The results are provided as follows:

Your submittal was found to be in full compliance with the standards for submission of data contained in PR Notice 86-5. A copy of your bibliography is enclosed, annotated with Master Record ID's (MRIDs) assigned to each document submitted. Please use these numbers in all future references to these documents. Thank you for your cooperation. If you have any questions concerning this data submission, please raise them with the cognizant Product Manager, to whom the data have been released.

TRANSMITTAL DOCUMENT

SUBMITTED BY

Monsanto Company

Lawn & Garden Products 800 N. Lindbergh Blvd. St. Louis, MO 63167

REGULATORY ACTION IN SUPPORT OF WHICH THE PACKAGE IS SUBMITTED

Application for Registration of MON 78307 Herbicide

DATA GUIDELINES

Series 61, 62, and 63 [OPPTS Series 830] 81-1, 81-2, 81-3, 81-4, 81-5, 81-6 [OPPTS Series 870.1200 - 870.2600]

TRANSMITTAL DATE

11 May 2001

SUBMISSION NUMBER

R.D. 1537, 8 volumes

LIST OF SUBMITTED DATA:

Volume	Monsanto Study Number	Author	Title	
1	R.D. 1537	Mannion, Rhonda M.	Administrative Materials in Support of Registration of MON 78307 Herbicide	
			MRID	
2	MSL 17135	Mierkowski, M.	Product Chemistry Data to Support the Registration of MON 78307 Herbicide	
			MRID 45410601	
3	SB-2001-026	Bonnette, K.L.	An Acute Oral Toxicity Study in Rats with MON 78567	
			MRID 45410602	

STUDY TITLE

Administrative Materials in Support of Registration of MON 78307 Herbicide

DATA REQUIREMENT

Administrative Materials for Product Registration Chemical Identity OPPTS 860.1100 Directions for Use OPPTS 860.1200 Proposed Tolerances OPPTS 860.1550 Reasonable Grounds OPPTS 860.1560

AUTHOR

Rhonda M. Mannion

REGISTRANT SUBMISSION DATE

11 May 2001

REGISTRANT ADDRESS

Monsanto Co. 800 N. Lindbergh Blvd. St. Louis, MO 63167

PROJECT NO.

R.D. No. 1537

Vol. 1 OF 8

000100072



STATEMENT OF DATA CONFIDENTIALITY CLAIMS

Information claimed as confidential on the basis of its falling within the scope of FIFRA 10(d)(1)(A), (B), or (C) has been removed to a Confidential Attachment, and is cited by cross-reference number in the body of the text.

We submit this material to the United States Environmental Protection Agency (EPA) specifically under provisions contained in FIFRA as amended, and thereby consent to use and disclosure of this material by EPA according to FIFRA. Some pages of this report may be stamped with the following: CONTAINS TRADE SECRET OR OTHERWISE CONFIDENTIAL INFORMATION OF MONSANTO COMPANY. This claim of confidentiality is not meant to convey supplemental claims of confidentiality regarding data subject to disclosure under sections 10(d) and 10(e) of FIFRA. In submitting this material to the EPA according to method and format requirements contained in PR Notice 86-5, we do not waive any protection of rights involving this material that would have been claimed by the company if this material had not been submitted to the EPA.

COMPANY: Monsanto Company	
COMPANY AGENT:	
Mundley M Mann (signature)	
Rhonda M. Mannion, Registration Manager (printed name and title)	••••
11 May 2001 (date)	•
	•••••

GLP COMPLIANCE STATEMENT

MONSANTO COMPANY

This volume contains administrative and descriptive information and is not subject to the requirements of Title 40 Code of Federal Regulations, Part 160, Good Laboratory Practices Standards.

ison/Submitter.	
Rhonda M Wann.	(signature)
Rhonda M. Mannion, Registration Manager	(printed name and title)
11 May 2001	_ (date)

Table of Contents

Part I	Administrative Materials	
	Application for Pesticide Registration (8570-1)	6
	Child-Resistent Packaging Certification Statement	7
	Formulation Exemption Statement (8570-27)	8
	Self Certification Statement for Physical/Chemical Properties (8570-37)	9
	Summary of Physical/Chemical Properties (8570-36)	10
	Certification with Respect to Citation of Data (8570-34)	11
	Data Matrix (EPA form 8570-35)	. 12
Part II	Petition for Registration of a New Pesticide Product	
A.	Composition of the Pesticide Product	. 17
	Explanation of Confidential Statement of Formula	
	CSF - Basic Formulation (8570-4)	
	CSF - Alternate Formulation (8570-4)	
В.	Directions for Use	
	Explanation of Label Text Source	22
	Proposed MON 78307 Master Labeling Text	
C.	Data Reference List	
	Residue Removal Procedures	
E.	Effectiveness Data	. 70
	Tolerances	
G	Reasonable Grounds	72

Confidential Attachment

Part I Administrative Materials

Please read instructions				•
Please read instructions	on reverse	Detore	Unite	I had to be a second

tes

~	Registration
	Amendment
	Other

Form Approved. OMB No. 2070-0060. Approval expires 2-28-95

OPP Identifier Number

Washington, DC 2		Other	ment	277400
Applicat	tion for Pesticide - Sec	tion I		<u> </u>
1. Company/Product Number 71995-xxx EO	2. EPA Product Mar Mr. Dan Rosenb			oposed Classification
4. Company/Product (Name) MON 78307 herbicide	PM# / 25 /			Notice Restricted
5. Name and Address of Applicant (Include ZIP Code) Monsanto Company 600 13th Street N.W., Suite 660 Washington, DC 20005 Check if this is a new address		is similar or iden	tical in cor	FIFRA Section 3(c)(3) mposition and labeling
	Section - II			
Amendment - Explain below. Resubmission in response to Agency letter dated Notification - Explain below. Explanation: Use additional page(s) if necessary. (For section of the s	Agency lett "Me Too" Other - Exp	d lebels in repsons ter dated Application. Ilain below.	e to	
Application to register MON 78307 herbicide.				
	Section - III			
1. Material This Product Will Be Packaged In: Child-Resistant Packaging Yes No No If "Yes" Unit Packaging wgt. No. per Unit Packaging wgt.	Water Soluble Packaging Yes No If "Yes" Package wgt No. per contained	2. Type of	Container Metal Plastic Glass Paper Other (Sp	pecify)
	etail Container	5. Location of Lat	bel Direction	
Container Container	ograph Other		3)	
	Section - IV			
1. Contact Point	ion of individual to be contacted,	if necessary, to pr	ocess this	application.)
Name Dr. Marsha Gray	Title Registration Manager		Telephone (202) 783-	No. (Include Area Code) 2460
Certific I certify that the statements I have made on this form an I acknowledge that any knowlingly false or misleading st both under applicable law.	d all attachments thereto are true		mplete.	6. Date Application Received (Stamped)
Clinde M Mann-	3. Title Registration Manager			
4. Typed Name Rhonda M. Mannion	5. Date 11 May 200	7/		

Monsanto Company Lawn & Garden Products 800 N. Lindbergh Blvd. St. Louis, Missouri 63167

Submitted to Support the Registration of MON 78307 Herbicide EPA Reg. No. 71995-XXX € Ø

CHILD-RESISTENT PACKAGING CERTIFICATION STATEMENT

I hereby certify that the packaging that will be used for this product meets the standards of 40 CFR 157.32.

Company Agent:

Rhonda M. Mannion

Title:

Registration Manager

Date:

Signature:

11 May 2001 Rhonela M Mam



SEPA

United States

Environmental Protection Agency

Washington, DC 20460

Formulator's Evenntion Statement

splicant's Name and Address	EPA File Symbol/Registration Number
Monsanto Company Jawn & Garden Products	71995-XXX- EO
500 13th Street N.W., Suite 660	Product Name
Nashington, DC 20005	MON 78307 Herbicide
	Date of Confidential Statement of Formula (EPA Form 8570-4) 4 May 2001

(1) This product contains the following active ingredient(s):

diquat dibromide (CAS Reg. No. 85-00-7) glyphosate in the form of its isopropylamine salt (CAS Reg. No. 38641-94-0)

- (2) Of these, each active ingredient listed in paragraph (4) is present solely as the result of the use of that active ingredient in the manufacturing, formulation or repackaging another product which contains that active ingredient which is registered under FIFRA Section 3, is purchased by us from another producer, and is labeled for at least each use for which my product is proposed to be labeled.
- (3) Indicate by checking (A) or (B) below which paragraph applies:
- (A) An accurate Confidential Statement of Formula (EPA FORM 8570-4) for the above identified product is attached to this statement. That formula statement indicates, by company name, registration number, and product name, the source of the active ingredient(s) listed in paragraph (1).

- (B) The Confidential Statement of Formula (CSF) (EPA Form 8570-4) referenced above and on file with the EPA is complete, current, and accurate and contains the information required on the current CSF.
- (4) The following active ingredients in this product qualify for the formulator's exemption.

	Source	
Active Ingredient	Product Name	Registration Number
hypnosate, isopropylamine salt	MON 0139	524-333
iquat dibromide		
Product ingredient sourc	e information may be entitled to confi	dential treatment
natura Wiende M Mann	Name and Title Rhonda M. Mannion, Registration Manager	Date 11 May 2001

EPA Form 8570-27 (Rev. 8-95)

White - EPA copy Yellow - Applicant copy





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Mangaement Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the completed form to this address.

SELF-CERTIFICATION STATEMENT FOR THE PHYSICAL/CHEMICAL PROPERTIES (PR NOTICE 98-1)

THISICAL/CHEWICAL TROTERIES	(TR NOTICE 98-1)
Product Name: MON 78307 Herbicide	
Reg. No./File Symbol No. 71995-xxx E 0 (if known) or Company No.	
SELF-CERTIFICATION STATEMENT:	
I certify that the reported information on the "Summary Form" the test results of studies generated or owned by (Company Name) and that the value	
I further certify that such data was generated in substantial conformity Product Properties, applicable to my product, and in effect at the t	with OPPTS Test Guidelines Series 830
As a condition of registration, EPA may, by order, (1) withdra registration of this product without opportunity for hearing, or (3) ass 14 of FIFRA for violations of section 12(a)(2)(N) of FIFRA withdown submitted to EPA within thirty (30) days of receipt of a request be agreed to by the Agency, test results of studies summarized in the	ess civil penalties provided for in section out opportunity for hearing, if I have not y the Agency, or within a specified time
As a condition of registration, EPA may, by order, (1) withdra registration of this product without opportunity for hearing, or (3) ass 14 of FIFRA for violations of sections 12(a)(2)(N), 12(a)(2)(Q), or 12 for hearing, if I fail to provide to EPA within thirty (30) days of rea a specified time agreed to by the Agency, information that EPA de	ess civil penalties provided for in section 2(a)(2)(R) of FIFRA without opportunity ceipt of a notification of error, or within
Type Applicant's Name: Rhonda M. Mannion	
Title: Registration Manager	Telephone No. (314) 694-8785
Applicant's Signature: Munda M Mann	Date: 11 May 2001
EPA Form 8570-37 (07/JAN/1998)	

Attack-2





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 1 hour per response for registration activities and 1 hour per response for registration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Mangaement Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the completed form to this address.

ООППРИОТ	ed form to this address.		
	SUMMA	ARY OF THE PHYSICAL/CHEMICAL PROPERTIES (PR No	otice 98-1)
1. PROI	DUCT NAME: MON 78307	Herbicide	2. Reg. No. 71995-xxx EO
3. COM	PANY NAME: Monsanto C	ompany, Lawn & Garden Products	4. SUBMISSION DATE: May 11, 2001
	T SUBMISSION 🗹	7. PESTICIDE TYPE: Herbicide	10. REGISTRATION
8. FOR	MULATED MANUFACTURI	ING-USE PRODUCT ☐ or 9. END-USE PRODUCT ☑	11. REREGISTRATION [
13. PRO	DUCT MANAGER OR CHE	Mr. Dan Rosenblatt	12. REREG CASE #
14. G	UIDELINE REFERENCE NO.(GRN)/TITLE	15. VALUE or QUALITATIVE DESCRIPTION/METHOD(s) USED WHERE APPLICABLE AND REFERENCES	16. MRID or REPORT NO.
	Grou	up B, Series 830-Physical and Chemical Properties (40 CFR 15	8.190)
-6302	Color	Light amber	MSL-17135
-6303	Physical State	Liquid	MSL-17135
-6304	Odor	Musky	MSL-17135
-6314	Oxidation/Reduction: Chemical Incompatibility	Slowly reduced by Zinc. Slowly oxidized by 1% KMnO4. No reaction with NH4H2PO4. 5:1 ratio EP:reagent.	MSL-17135
-6315	Flammability/Flame Extension	Did not flash below 212F (100C). Pensky-Martens closed tester. ASTM-D-93-B.	MSL-17135
-6316	Explodability	No exotherm observed when held @ 250C for 2 hours. DSC using ASTM E-487, E-537 & E-967.	MSL-17135
-6317	Storage Stability	Accelerated aging test complete, no degradation when held @ 55C for 2 weeks. One year study to be initiated. T0: 17.92% glyphosate, 0.74% diquat T(2wk): 17.94% glyphosate, 0.74% diquat.	MSL-17135
-6319	Miscibility	Not required, not an emulsifiable liquid.	MSL-17135
-6320	Corrosion Characteristics	One year study to be initiated.	MSL-17135
-6321	Dielectric Breakdown Voltage	Not required, not used in or around electrical equipment.	MSL-17135
-7000	рН	4.69 @ 25.1C in 1% aqueous solution (std dev = 0.014)	MSL-17135
-7100	Viscosity	centipoise/rpm: 60.1/6, 55.1/12, 59.6/30 and 60.0/60 @ 20C.	MSL-17135
-7300	Density/Relative Density/ Bulk Density	1.0747 g/mL @ 20C using digital density meter (std dev = 0.0001)	MSL-17135

EPA Form 8570-36 (07/JAN/1998)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 1.25 hours per response for registration and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460.

Do not send the completed form to this address.

Information Management Division (2137), U.S. Environmental Protection Agency, 40 Do not send the completed form to this address.	ation, including sugg 11 M Street, S.W., W	estions for reducing the burden to: Director, OPPE /ashington, DC 20460.
Certification with Respec	t to Citation of	Data
Applicant's/Registrant's Name, Address, and Telephone Number Monsanto Com 600 13th Street, N.W., Suite 660 Washington, DC 20005 (202)783-2460		EPA Registration Number/File Symbol 71995-XXX E 0
Active Ingredient(s) and/or representative test compound(s) glyphosate and diquat		Date May 11, 2001
General Use Pattern(s) (list all those claimed for this product using 40 CFR Part 150 non-selective herbicide	3)	Product Name MON 78307 Herbicide
NOTE: If your product is a 100% repackaging of another purchased EPA-register submit this form. You must submit the Formulator's Exemption Statement (EPA Formulator's Exemption Statement)		or all the same uses on your label, you do not need to
I am responding to a Data-Call-In Notice, and have included with this form a be used for this purpose).	a list of companies se	ent offers of compensation (the Data Matrix form should
SECTION I: METHOD OF DATA SUP	PORT (Check one m	nethod only)
I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).	under the	g the selective method of support (or cite-all option e selective method), and have included with this form a d list of data requirements (the Data Matrix form must be
SECTION II: GENERAL	OFFER TO PAY	
[Required if using the cite-all method or when using the cite-all option under the select	ctive method to satis	fy one or more data requirements]
I hereby offer and agree to pay compensation, to other persons, with regard to	o the approval of this	application, to the extent required by FIFRA.
SECTION III: CERT	TIFICATION	
I certify that this application for registration, this form for reregistration, or the application for registration, the form for reregistration, or the Data-Call-in response. It dicated in Section I, this application is supported by all data in the Agency's files that ubstantially similar product, or one or more of the ingredients in this product; and (2) requirements in effect on the date of approval of this application if the application sources.	n addition, if the cite- at (1) concern the pro- is a type of data tha	all option or cite-all option under the selective method is operties or effects of this product or an identical or t would be required to be submitted under the data
I certify that for each exclusive use study cited in support of this registration the written permission of the original data submitter to cite that study.	or reregistration, th	at I am the original data submitter or that I have obtained
I certify that for each study cited in support of this registration or reregistratic submitter; (b) I have obtained the permission of the original data submitter to use the compensation have expired for the study; (d) the study is in the public literature; or (e) offered (I) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(amount and terms of compensation, if any, to be paid for the use of the study.	study in support of to I have notified in wr	his application; (c) all periods of eligibility for iting the company that submitted the study and have
I certify that in all instances where an offer of compensation is required, cop accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will evidence to the Agency upon request, I understand that the Agency may initiate action FIFRA.	be submitted to the	Agency upon request. Should I fail to produce such
I certify that the statements I have made on this form and all attachm knowingly false or misleading statement may be punishable by fine or imprisonable by fine or imprisonab		
Signature Munda M Mann	Date 11 May 2001	Typed or Printed Name and Title Rhonda M. Mannion Registration Manager

EPA Form 8570-34 (9-97) Electronic and Paper versions available. Submit only Paper version.

Form Approved OMB No. 2070-0060

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460 401 M Street, S.W.

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

		DAT	DATA MATRIX			
a	Date May 11, 2001			EPA Reg No./File Symbol 71995-XXX		Page 1of
4	Applicant's/Registrant's Name & Address 600 13th Street, N.W., Suite 660 W	pplicant's/Registrant's Name & Address Monsanto Company 600 13th Street, N.W., Suite 660 Washington, DC 20005 (202)783-2460		Product MON 78307 Herbicide		
드	Ingredient glyphosate and diquat					
0	Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
88	860.1100, 860.1200, 860.1550, 860.1560	Administrative Materials in Support of Registration of MON 78307 Herbicide	This submission	Monsanto	OWN	
Š.	Series 61, 62, and 63	Product Chemistry Data to Support the Registration of MON 78307 Herbicide	This submission	Monsanto	OWN	
8	81-1	An Acute Oral Toxicity Study in Rats with MON 78567	This submission	Monsanto	OWN	
ω	81-2	An Acute Dermal Toxicity Study in Rats with MON 78567	This son -	Monsanto	NMO	
ω	81-3	An Acute Nose-Only Inhalation Study in Rats with MON 78408	This submission -	Monsanto	NMO	
S	Signature Russel M Warn	Mann		Name and Title Rhonda M. Mannion Registration Manager		Date 11 May 2001

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

0012010072

Agency Internal Use Copy

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

		DATA	DATA MATRIX		:		_
	Date May 11, 2001			EPA Reg No./File Symbol 71995-XXX FO		Page 2of 2	_
	Applicant's/Registrant's Name & Address	ss Monsanto Company		Product			_
	600 13th Street, N.W., Suite 660	600 13th Street, N.W., Suite 660 Washington, DC 20005 (202)783-2460		MON 78307 Herbicide			
	Ingredient glyphosate and diquat		-				
	Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note	
•	81-4	A Primary Eye Irritation Study in Rabbits with MON 78567	This -submission -	Monsanto	NWO		
			•			•	
<u> </u>	81-5	A Primary Skin Irritation Study in Rabbits with MON 78567	This submission	Monsanto	NWO		, , , , ,
		+			•		_
	81-6	A Dermal Sensitization Study in Guinea Pigs with MON 78408	This submission -	Monsanto	NMO		,
	•			•		·	
	all other data requirements	see data matrix list provided in Section C of this application					
		•			•		
					•		_
_							_
263	Signature Manel M M	Man		Name and Title Rhonda M. Mannion Registration Manager		Date 11 May Hev!	
d				•			

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Agency Internal Use Copy

Section C Data Reference List

0039110072

Data Matrix: Glyphosate

Printed: 02/23/2001

EPA Reg. Nos. 524-NEW

CHEMISTRY40 CFR 158.150-158.190

PRODUCT

(830 Series)

N). STUDY NAME	DATA REG'D	EPA MRID NUMBER	SUBMIT	MONSANTO DOCUMENT NUMBER	SUBMITTER	STATUS
PRO	PRODI ICT IDENTITY:						
61	61-1 Product Identity & Disclosure of Ingredients (MP)	+	41228201	08/30/1989	R D 953	Monsanto	NWO
	Product Identity & Disclosure of Ingredients (MP)	+	161333	06/30/1986	R.D. 690	Monsanto	NMO
61	61-2 Beginning Materials and Manufacturing Process (MP)	+	41228201	08/30/1989	R.D. 953	Monsanto	NMO
	Beginning Materials and Manufacturing Process (MP)	+	161333	06/30/1986	R.D. 690	Monsanto	OWN
61-3		+	41228201	08/30/1989	R.D. 953	Monsanto	OWN
	Formation of Impurities (MP)	+	161333	06/30/1986	R.D. 690	Monsanto	OWN
ANA	ANALYSIS AND CERTIFICATION OF INGREDIENTS	ġ.					
62	62-1 Preliminary Analysis (MP)	+	41228202	08/30/1989	R.D. 953	Monsanto	OWN
62	62-2 Certification of Limits (MP)	+	41228202	08/30/1989	R.D. 953	Monsanto	OWN
	Certification of Limits (MP)	+	161333	06/30/1986	R.D. 690	Monsanto	OWN
62	62-3 Analytical Methods for Enforcement of Limits (MP)	+	41228202	08/30/1989	R.D. 953	Monsanto	OWN
	Analytical Methods for Enforcement of Limits (MP)	+	161333	06/30/1986	R.D. 690	Monsanto	OWN
PHY.	PHYSICAL AND CHEMICAL CHARACTERISTICS:						
63	63-2 Color (MP & TGAI)	+	161333	06/30/1986	R.D. 690	Monsanto	OWN
63	63-3 Physical State (MP & TGAI)	+	161333	06/30/1986	R.D. 690	Monsanto	OWN
63	63-4 Odor (MP & TGAI)	+	161333	06/30/1986	R.D. 690	Monsanto	OWN
63	63-5 Melting Point (TGAI)	+	51977	06/01/1976	R.D. 102	Monsanto	OWN
63	63-6 Boiling Point (TGAI)	R					
63	63-7 Density, Bulk Density or Specific Gravity (MP & TGAI)	+	161333	06/30/1986	R.D. 690	Monsanto	OWN
63	63-8 Solubility (TGAI or PAI)	+	161333	06/30/1986	R.D. 690	Monsanto	OWN
63	63-9 Vapor Pressure (TGAI or PAI)	+	41096101	05/10/1989	R.D. 924	Monsanto	OWN
63	63-10 Dissociation Constant (TGAI or PAI)	+	161333	06/30/1986	R.D. 690	Monsanto	OWN
63	63-11 Octanol/Water Partition Coefficient (PAI)	+	108192	06/05/1978	R.D. 181	Monsanto	OWN
63	63-12 pH (MP & TGAI)	+	152385	07/30/1984	R.D. 542	Monsanto	OWN
63	63-13 Stability (TGAI)	+	152385	07/30/1984	R.D. 542	Monsanto	OWN
63	63-14 Oxidizing or Reducing Action (MP)	+	161333	06/30/1986	R.D. 690	Monsanto	OWN
63	63-15 Flammability (MP)	+	161333	06/30/1986	R.D. 690	Monsanto	OWN

Contains Trade Secret or Otherwise Confidential Information of Monsanto Company

NR: See Appendix E for Explanaton of Non-Required Data

Data Matrix: Glyphosate

Printed: 02/23/2001

EPA Reg. Nos. 524-NEW

STATUS	NMO	NMO			NMO		OWN
SUBMITTER	Monsanto	Monsanto			Monsanto		Monsanto
MONSANTO DOCUMENT NUMBER	1	R.D. 542	,		R.D. 690		
SUBMIT	06/30/1986	07/30/1984			06/30/1986		
EPA MRID NUMBER	161333	152385			161333		
DATA	+	+	E E	R R	+		+
NO. STUDY NAME	63-16 Explodability (MP)	63-17 Storage Stability (MP)	63-18 Viscosity (MP)	63-19 Miscibility (MP)	63-20 Corrosion Characteristics (MP)	63-21 Dielectric Breakdown Voltage	64-1 Submittal of Samples (PAI)
PRODUCT CHEMISTRY40 CFR 158.150-158.190 (830 Series)							

Data Matrix: Glyphosate

Printed: 05/11/2001

EPA Reg. Nos. 524-NEW	STATUS	NWO OWN OWN	NWO	NWO OWN OWN	NWO OWN	NWO OWN	OWN OWN OWN OWN
EPA	SUBMITTER	Monsanto Monsanto Monsanto Monsanto Monsanto	Monsanto	Monsanto Monsanto Monsanto Monsanto	Monsanto Monsanto	_	Monsanto Monsanto Monsanto Monsanto Monsanto Monsanto Monsanto
	MONSANTO DOCUMENT NUMBER	R.D. 976 R.D. 976 R.D. 976 R.D. 976 R.D. 515	R.D. 108	R.D. 860 R.D. 40 R.D. 413 R.D. 40	R.D. 40	R.D. 1014 R.D. 1014 R.D. 636	R.D. 698 R.D. 1014 R.D. 1014 R.D. 480 R.D. 635 R.D. 643
	SUBMIT	02/06/1990 02/06/1990 02/06/1990 02/06/1990 12/20/1983	12/22/1976	03/16/1988 01/15/1973 03/22/1982 01/15/1973	07/12/1974	09/26/1990 12/17/1990 10/17/1985	
ate	EPA MRID NUMBER	41400601 41400602 41400603 41400604 137138	54494	40559401 40557 98460 67045	108128	41643801 41728701 153374	162912 41643801 41728701 130406 150564 153376
Data Matrix: Glyphosate	DATA REC'D	+ + & + + (N) & ((NH)	+ + + +	N N N N N N N N N N N N N N N N N N N	+ +	+ +
Data Ma		81-1 Oral LD50 - Rat (MP & TGAI) 81-2 Dermal LD50 (MP & TGAI) 81-3 Inhalation LC50 - Rat (MP & TGAI) 81-4 Primary Eye Irritation - Rabbit (MP) 81-5 Primary Dermal Irritation (MP) 81-6 Dermal Sensitization (MP) 81-7 Acute Delayed Neurotoxicity - Hen (TGAI) Acute Delayed Neurotoxicity - Hen (TGAI)	SUBCHRONIC TESTING 82-1 90-Day Feeding - Bodent (TGA))		82-3 90-Day Dermal (TGAI) 82-4 90-Day Inhalation - Rat (TGAI) 82-5 90-Day Neurotoxicity - Hen (TGAI) 90-Day Neurotoxicity - Mammal (TGAI) CHRONIC TESTING	83-1 Chronic Feeding - Rodent (TGAI) Chronic Feeding - Nonrodent (TGAI)	83-2 Oncogenicity Study - Rat (TGAI) Oncogenicity Study - Mouse (TGAI)
A VOCIODIXOT	CFR 158.340 (870 Series)				*****		

NR: See Appendix E for Explanaton of Non-Required Data

Contains Trade Secret or Otherwise Confidential Information of Monsanto Company

Data Matrix: Glyphosate

EPA Reg. Nos. 524-NEW

> TOXICOLOGY 40 CFR 158.340 (870 Series) NO.

NUMBER SUBMIT DOCUMENT SUBMITTER 46362 05/13/1980 R.D. 300 Monsanto 46363 05/13/1980 R.D. 300 Monsanto 46363 05/13/1980 R.D. 1013 Monsanto 46364 04/20/1979 R.D. 236 Monsanto 132681 11/04/1983 R.D. 504 Monsanto 137640 02/09/1979 R.D. 504 Monsanto 137640 04/20/1979 R.D. 504 Monsanto 132682 11/04/1983 R.D. 504 Monsanto 132683 11/04/1983 R.D. 504 Monsanto 132684 11/04/1983 R.D. 504 Monsanto 132685 11/04/1983 R.D. 504 Monsanto 132686 11/04/1983 R.D. 504 Monsanto 132680 11/04/1983 R.D. 504 Monsanto 132680 11/04/1983 R.D. 504 Monsanto 132680 11/04/1983 R.D. 504 Monsanto 137139 12/20/1983 R.D. 515<						MONSANTO		
HEUD NUMBER NUMBER SUBMITTER	9		DATA	EPA MRID	SUBMIT	DOCUMENT		
+ 46362 05/13/1980 R.D. 300 Monsanto + 46363 05/13/1980 R.D. 300 Monsanto + 46363 05/13/1980 R.D. 300 Monsanto + 78619 04/20/1979 R.D. 236 Monsanto 132681 11/04/1983 R.D. 504 Monsanto 137640 02/09/1984 R.D. 536 Monsanto 137640 02/09/1984 R.D. 536 Monsanto 137640 02/09/1989 R.D. 236 Monsanto 132682 11/04/1983 R.D. 504 Monsanto 132682 11/04/1983 R.D. 504 Monsanto 132683 11/04/1983 R.D. 504 Monsanto 132684 11/04/1983 R.D. 504 Monsanto 132685 11/04/1983 R.D. 504 Monsanto 132686 11/04/1983 R.D. 504 Monsanto 132680 11/04/1983 R.D. 504 Monsanto 132789 12/20/1983 R.D. 515 Monsanto 137140 12/20/1983 R.D. 515 Monsanto NR		SIOUY NAME	HEGID	NUMBER	DAIE	NUMBER	SUBMILIER	SIAIUS
+ 46363 05/13/1980 R.D. 300 Monsanto + 41621501 08/30/1990 R.D. 1013 Monsanto + 78619 04/20/1979 R.D. 236 Monsanto 132681 11/04/1983 R.D. 504 Monsanto 137640 02/09/1994 R.D. 504 Monsanto 78620 04/20/1979 R.D. 236 Monsanto 132682 11/04/1983 R.D. 504 Monsanto 132682 11/04/1983 R.D. 504 Monsanto 132684 11/04/1983 R.D. 504 Monsanto 132685 11/04/1983 R.D. 504 Monsanto 132686 11/04/1983 R.D. 504 Monsanto 132686 11/04/1983 R.D. 504 Monsanto 132680 11/04/1983 R.D. 504 Monsanto 132740 12/20/1983 R.D. 515 Monsanto		Teratology - Rat (TGAI)	+	46362	05/13/1980	R.D. 300	Monsanto	OWN
H 78619 04/20/1979 R.D. 1013 Monsanto 132681 11/04/1983 R.D. 504 Monsanto 137640 02/09/1979 R.D. 504 Monsanto 137640 02/09/1979 R.D. 504 Monsanto 78620 04/20/1979 R.D. 236 Monsanto 132682 11/04/1983 R.D. 504 Monsanto 132682 11/04/1983 R.D. 504 Monsanto 132683 11/04/1983 R.D. 504 Monsanto 132684 11/04/1983 R.D. 504 Monsanto 132685 11/04/1983 R.D. 504 Monsanto 132686 11/04/1983 R.D. 504 Monsanto 132686 11/04/1983 R.D. 504 Monsanto 132680 11/04/1988 R.D. 504 Monsanto 132680 11/04/1988 R.D. 504 Monsanto 132680 11/04/1988 R.D. 515 Monsanto 137139 12/20/1983 R.D. 515 Monsanto 137140 12/20/1983 R.D. 515 Monsanto		Teratology - Rabbit (TGAI)	+	46363	05/13/1980	R.D. 300	Monsanto	OWN
+ 78619 04/20/1979 R.D. 236 Monsanto 132681 11/04/1983 R.D. 504 Monsanto 137640 02/09/1984 R.D. 504 Monsanto 78620 04/20/1979 R.D. 236 Monsanto 132682 11/04/1983 R.D. 300 Monsanto 132682 11/04/1983 R.D. 504 Monsanto 132683 11/04/1983 R.D. 504 Monsanto 132684 11/04/1983 R.D. 504 Monsanto 132685 11/04/1983 R.D. 504 Monsanto 132686 11/04/1983 R.D. 504 Monsanto 132686 11/04/1983 R.D. 504 Monsanto 132686 11/04/1983 R.D. 504 Monsanto 132680 11/04/1983 R.D. 515 Monsanto 137140 12/20/1983 R.D. 515 Monsanto	83-4	Reproduction, 2-Generation (TGAI)	+	41621501	08/30/1990	R.D. 1013	Monsanto	OWN
TGAI	IUTAG	ENICITY TESTING:						
132681 11/04/1983 R.D. 504 Monsanto 137640 02/09/1984 R.D. 504 Monsanto 78620 04/20/1979 R.D. 504 Monsanto 132682 11/04/1983 R.D. 504 Monsanto 132682 11/04/1983 R.D. 504 Monsanto 132683 11/04/1983 R.D. 504 Monsanto 132684 11/04/1983 R.D. 504 Monsanto 132685 11/04/1983 R.D. 504 Monsanto 132680 11/04/1983 R.D. 504 Monsanto 137139 12/20/1983 R.D. 515 Monsanto 137139 12/20/1983 R.D. 515 Monsanto 137140 12/20/1983 R.D. 515 R.D. 515	84-2	Gene Mutation (TGAI)	+	78619	04/20/1979	R.D. 236	Monsanto	OWN
137640 02/09/1984 R.D. 504 Monsanto 78620 04/20/1979 R.D. 236 Monsanto 78620 04/20/1979 R.D. 236 Monsanto 132682 11/04/1983 R.D. 504 Monsanto 132684 11/04/1983 R.D. 504 Monsanto 132685 11/04/1983 R.D. 504 Monsanto 132685 11/04/1983 R.D. 504 Monsanto 132686 11/04/1983 R.D. 504 Monsanto 132680 12/20/1983 R.D. 515 Monsanto 137140 12/20/1983 R.D. 515 R.D. 515				132681	11/04/1983	R.D. 504	Monsanto	OWN
Perration (TGAI)				137640	02/09/1984	R.D. 504	Monsanto	OWN
berration (TGAI)				78620	04/20/1979	R.D. 236	Monsanto	OWN
132682 11/04/1983 R.D. 504 Monsanto 132683 11/04/1983 R.D. 504 Monsanto 132684 11/04/1983 R.D. 504 Monsanto 132685 11/04/1983 R.D. 504 Monsanto 132686 11/04/1983 R.D. 504 Monsanto 132680 11/04/1983 R.D. 504 Monsanto 132680 11/04/1983 R.D. 504 Monsanto 132680 11/04/1983 R.D. 504 Monsanto 40767101 08/11/1988 R.D. 877 Monsanto 137139 12/20/1983 R.D. 515 Monsanto 137140 12/20/1983 R.D. 515 Monsanto 137140 12/20/1983 R.D. 515 Monsanto		Chromosomal Aberration (TGAI)	+	46364	05/13/1980	R.D. 300	Monsanto	OWN
132683 11/04/1983 R.D. 504 Monsanto 132684 11/04/1983 R.D. 504 Monsanto 132685 11/04/1983 R.D. 504 Monsanto 132685 11/04/1983 R.D. 504 Monsanto 132680 11/04/1983 R.D. 504 Monsanto 132680 11/04/1983 R.D. 504 Monsanto 40767101 08/11/1988 R.D. 877 Monsanto 100 137139 12/20/1983 R.D. 515 Monsanto 137140 12/20/1983 R.D. 515 Monsanto 137140 12/20/1983 R.D. 515 Monsanto 137140 12/20/1983 R.D. 515 Monsanto				132682	11/04/1983	R.D. 504	Monsanto	OWN
132684 11/04/1983 R.D. 504 Monsanto 132685 11/04/1983 R.D. 504 Monsanto 132686 11/04/1983 R.D. 504 Monsanto 132680 11/04/1983 R.D. 504 Monsanto 132680 11/04/1983 R.D. 504 Monsanto 40767101 08/11/1988 R.D. 877 Monsanto 40767102 08/11/1988 R.D. 877 Monsanto 137139 12/20/1983 R.D. 515 Monsanto 137140 12/20/1983 R.D. 515 Monsanto 137140 12/20/1983 R.D. 515 Monsanto				132683	11/04/1983	R.D. 504	Monsanto	OWN
132685 11/04/1983 R.D. 504 Monsanto 132686 11/04/1983 R.D. 504 Monsanto 132680 11/04/1983 R.D. 504 Monsanto 132680 11/04/1983 R.D. 504 Monsanto 40767101 08/11/1988 R.D. 877 Monsanto 40767102 08/11/1988 R.D. 877 Monsanto 137139 12/20/1983 R.D. 515 Monsanto 137140 R.D. 515 Monsanto 137140 R.D. 515 Monsanto 137140 R.D. 515 R.D. 515				132684	11/04/1983	R.D. 504	Monsanto	OWN
ns of Mutagenicity (TGAI) + 132686 11/04/1983 R.D. 504 Monsanto 132680 11/04/1983 R.D. 504 Monsanto Ism (PAIRA) + 40767101 08/11/1988 R.D. 877 Monsanto Ism (NR) 137139 12/20/1983 R.D. 515 Monsanto 137140 12/20/1983 R.D. 515 Monsanto ISafety NR				132685	11/04/1983	R.D. 504	Monsanto	OWN
132680	84-4		+	132686	11/04/1983	R.D. 504	Monsanto	OWN
lsm (PAIRA) + 40767101 08/11/1988 R.D. 877 Monsanto 40767102 08/11/1988 R.D. 877 Monsanto ion (NR) 137139 12/20/1983 R.D. 515 Monsanto 137140 12/20/1983 R.D. 515 Monsanto NR				132680	11/04/1983	R.D. 504	Monsanto	OWN
+ 40767101 08/11/1988 R.D. 877 Monsanto 40767102 08/11/1988 R.D. 877 Monsanto (NR) 137139 12/20/1983 R.D. 515 Monsanto 137140 12/20/1983 R.D. 515 Monsanto NR	PECIA	L TESTING:						
40767102 08/11/1988 R.D. 877 Monsanto (NR) 137139 12/20/1983 R.D. 515 Monsanto 137140 12/20/1983 R.D. 515 Monsanto NR	85-1	General Metabolism (PAIRA)	+	40767101	08/11/1988	R.D. 877	Monsanto	OWN
(NR) 137139 12/20/1983 R.D. 515 Monsanto 137140 12/20/1983 R.D. 515 Monsanto NR				40767102	08/11/1988	R.D. 877	Monsanto	OWN
137140 12/20/1983 R.D. 515 Monsanto NR	85-2	Dermal Penetration	(NR)	137139	12/20/1983	R.D. 515	Monsanto	OWN
				137140	12/20/1983	R.D. 515	Monsanto	OWN
	86-1	Domestic Animal Safety	NA					

Page 4 of 30

EPA Reg. Nos. 524-NEW

WILDLIFE & AQUATICS 40 CFR 158.490 (850 Series)

					MONSANTO		
		DATA	EPA MRID	SUBMIT	DOCUMENT		
<u>چ</u>	STUDY NAME	REQ'D	NUMBER	DATE	NUMBER	SUBMITTER	STATUS

NO.	STUDY NAME	DATA REQ'D	EPA MRID NUMBER	SUBMIT	MONSANTO DOCUMENT NUMBER	SUBMITTER	STATUS
AVIAN.	AVIAN AND MAMMALIAN TESTING:						
71-1	71-1 Avian Oral LD50 (TGAI)	+	108204	03/01/1978		Monsanto	NMO
71-2		+	108107	07/12/1974	R.D. 51	Monsanto	NMO
	Avian Dietary LC50 (EP)		44465701	01/19/1998	R.D. 1399	Monsanto	OWN
			44465702	01/19/1998	R.D. 1399	Monsanto	OWN
71-3	Wild Mammal Toxicity (TGA!)	Z Z					
71-4	71-4 Avian Reproduction (TGAI)	+	108207	11/13/1978	R.D. 211	Monsanto	OWN
			111953	11/13/1978	R.D. 211	Monsanto	NMO
71-5	71-5 Simulated / Actual Field Testing -	Z Z					
AOUAT	AQUATIC ORGANISM TESTING						
72-1	72-1 Freshwater Fish LC50 (TGAI)	+	108112	07/12/1974	R.D. 51	Monsanto	OWN
			136339	11/28/1978	R.D. 215	Monsanto	OWN
	Freshwater Fish LC50 (MUP)		44715409	12/10/1998	R.D. 1406	Monsanto	OWN
72-1	Freshwater Fish LC50 (TEP)	+	108112	07/12/1974	R.D. 51	Monsanto	NMO
			70894	03/30/1981	R.D. 350	Monsanto	NMO
			70895	03/30/1981	R.D. 350	Monsanto	NW0
			70896	03/30/1981	R.D. 350	Monsanto	NW0
			70897	03/30/1981	R.D. 350	Monsanto	NMO
			40579201	03/25/1988	R.D. 862	Monsanto	OWN
			40579202	03/25/1988	R.D. 862	Monsanto	OWN
			40579203	03/25/1988	R.D. 862	Monsanto	OWN
72-2	72-2 Acute LC50 Freshwater Invertebrates (TGAI)	+	136338	11/28/1978	R.D. 215	Monsanto	NW0
72-2	Acute LC50 Freshwater Invertebrates (TEP)	+	108109	07/12/1974	R.D. 51	Monsanto	OWN
			70893	03/30/1981	R.D. 350	Monsanto	NW0
			44715410	12/10/1998	R.D. 1406	Monsanto	OWN
72-3	72-3 Acute LC50 Estuarine and Marine	+	108110	07/12/1974	R.D. 51	Monsanto	NW0
			108111	07/12/1974	R.D. 51	Monsanto	OWN
	Organisms (TGAI)		136339	11/28/1978	R.D. 215	Monsanto	NMO
73-4		+	124761	12/20/1982	R.D. 453	Monsanto	OWN

EPA Reg. Nos. 524-NEW

9	3 2	<u> </u>	Z	Z	OWN	Z	Z	ş	Z	
L	_			ò	ò	ò	ò	ò	ò	
	Monganta	MOUSANIO	Monsanto	Monsanto	Monsanto	Monsanto	Monsanto	Monsanto	Monsanto	
MONSANTO DOCUMENT	NOWIDER P.D. 453	J.D. 455	R.D. 453	R.D. 220	R.D. 51	R.D. 407	R.D. 220	R.D. 955	R.D. 955	
SUBMIT	12/20/1082	7061 (07/7)	12/20/1982	12/22/1978	07/12/1974	02/26/1982	12/22/1978	09/05/1989	09/05/1989	
EPA MRID	124762	70 /47	124763	108172	111942	94971	108173	41228301	41228302	
DATA	וורמה			+	+					(
ON VAME	Aquatic Invertebrate Life-Cycle (TGAI)			72-5 Fish - Life-Cycle (TGAI)	72-6 Aquatic Organism Accumulation (TGAI)					1010
Ç				72-	72-					1
WILDLIFE & AQUATICS 40 CFR 158.490 (850 Series)	(22122 222)								-	

K

72-7 Simulated or Actual Field Testing (TEP)

Page 6 of 30

EPA Reg. Nos. 524-NEW

PROTECTION 40 CFR 158.540 (850 Series) **PLANT**

					MONSANTO		
		DATA	EPA MRID	SUBMIT	DOCUMENT		
0	STUDY NAME	REG'D	NUMBER	DATE	NUMBER	SUBMITTER	STATUS

TARGET AREA PHYTOTOXICITY						
121-1 Target Area Phytotoxicity (TEP)	RN					
NONTARGET AREA PHYTOTOXICITY						
TIER I:						
122-1 Seed Germination/Seedling Emergence (TGAI)	+	40159301	04/10/1987	R.D. 767	Monsanto	NMO
122-1 Vegetative Vigor (TGAI)	Ξ					
122-2 Aquatic Plant Growth (TGAI)	(2)					
TIER II:	•					
123-1 Seed Germination/Seedling Emergence (TGAI)	RN					
123-1 Vegetative Vigor (TGAI)	+	43088701	01/17/1994	R.D. 1219	Monsanto	OWN
123-2 Aquatic Plant Growth (TGAI)	+	40236901	06/12/1987	R.D. 779	Monsanto	OWN
		40236902	06/12/1987	R.D. 778	Monsanto	OWN
		40236903	06/12/1987	R.D. 781	Monsanto	OWN
		40236904	06/12/1987	R.D. 782	Monsanto	OWN
	÷	40236905	06/12/1987	R.D. 783	Monsanto	OWN
TIER III:						
124-1 Terrestrial Field (TEP)	RN					
124-2 Aquatic Field (TEP)	EZ EZ					

⁽¹⁾ Tier I Vegetative Vigor studies were combined with Tier II Vegetative Vigor studies.

⁽²⁾ Tier I Aquatic Plant Growth studies were combined with Tier II Aquatic Plant Growth studies.

INSECT 40 CFR 158.590 (850 Series)

NONTARGET

Data Matrix: Glyphosate

EPA Reg. Nos. 524-NEW

					MONSANTO			
		DATA	EPA MRID	SUBMIT	DOCUMENT			
Ö.	STUDY NAME	REQ'D	NUMBER	DATE	NUMBER	SUBMITTER	STATUS	

POLLINATORS					
141-1 Honeybee Acute Contact Toxicity (TGAI)	+ 108108	07/12/1974	R.D. 51	Monsanto	NWO
Honeybee Acute Contact Toxicity (EP)	44465703	01/19/1998	R.D. 1399	Monsanto	NMO
141-2 Honeybee - Toxicity of Residues	NR				· · ·
on Foliage (TEP)					
141-4 Honeybee Subacute Feeding Study (TEP)	Ξ				
141-5 Field Testing for Pollinators (TEP)	ZZ.				
AQUATIC INSECTS:					
142-1 Acute Toxicity to Aquatic Insects	(2)				
142-2 Aquatic Insect Life-Cycle Study	(2)				
142-3 Simulated or Actual Field Testing	(2)	٠			
for Aquatic Insects					
PREDATORS AND PARASITES:					
143-1 thru 143-3	(2)				

- Reserved pending development of test methodology.
 Reserved pending further evaluation to determine what and when data should be required, and to develop appropriate test methods.

004700072

Contains Trade Secret or Otherwise Confidential Information of Monsanto Company

NR: See Appendix E for Explanaton of Non-Required Data

Printed: 05/11/2001

PROTECTION 40 CFR 158.390 (875 Series) REENTRY

SUBMIT DATE EPA MRID NUMBER DATA REQ'D STUDY NAME

200000	
33333	
3000	
100000	
7000	
2000	
33333	
33000	
30000	
33.43	
-	
100	
144	
35.0	
3.55	
4.22	
3,000	
100	
7.77	
3.00	
REENTRY PROTECTION:	
100	
3.1.1	
- Sidel	
1:1:1	
-	

Š.

	iar Dissipation (TEP)	I Dissipation (TEP)	mal Exposure (TEP)	alation Exposure (TEP)
400 4 Fallan Diamination	132-1 rollar Dissipation (1EP)	132-1 Soil Dissipation (TEP)	133-3 Dermal Exposure (TEP)	133-4 Inhalation Exposure (TEP)

EPA Reg. Nos. 524-NEW

Data Matrix: Glyphosate

Data Matrix: Glyphosate

EPA Reg. Nos. 524-NEW

> ENVIRONMENTAL FATE 40 CFR 158.290 NO. STUDY NAME

NO. STUDY NAME	DATA	EPA MRID	SUBMIT	MONSANTO DOCUMENT NIMBER	SIIBMITTED	CTATHS
and and the second						3
DEGRADATION STUDIES - LAB:						
161-1 Hydrolysis (TGAI or PAIRA)	+	108192	06/05/1978	R.D. 181	Monsanto	OWN
Hydrolysis (MUP)		44715408	12/10/1998	R.D. 1406	Monsanto	OWN
PHOTODEGRADATION:						
161-2 In Water (TGAI or PAIRA)	+	41689101	11/01/1990	R.D. 1020	Monsanto	OWN
161-3 On Soil (TGAI or PAIRA)	+	41355101	12/18/1989	R.D. 972	Monsanto	OWN
161-4 In Air (TGAI or PAIRA)	RN					
METABOLISM STUDIES - LAB:						
162-1 Aerobic Soil (TGAI or PAIRA)	+	41742901	01/03/1991	R.D. 1031	Monsanto	OWN
		43272501	06/24/1992	06/24/1992 3.D. 1031 Supp	Monsanto	OWN
162-2 Anaerobic Soil (TGAI or PAIRA)	RN					
162-3 Anaerobic Aquatic (TGAI or PAIRA)	+	41723701	12/07/1990	R.D. 1029	Monsanto	OWN
		42372502	06/24/1992	3.D. 1029 Supp	Monsanto	OWN
162-4 Aerobic Aquatic (TGAI or PAIRA)	+	41723601	12/07/1990	R.D. 1030	Monsanto	OWN
		42372503	06/24/1992	3.D. 1030 Supl	Monsanto	OWN
MOBILITY STUDIES:						
163-1 Leaching and Adsorption/Desorption	+	39938	07/12/1974	R.D. 51	Monsanto	OWN
(TGAI or PAIRA)		108192	06/05/1978	R.D. 181	Monsanto	OWN
		64703	12/16/1980	R.D. 335	Monsanto	OWN
163-2 Volatility - Lab (TEP)	NA					
163-3 Volatility - Field (TEP)	RN					
DISSIPATION STUDIES - FIELD:						
164-1 Soil (TEP)	+	39939	07/12/1974	R.D. 51	Monsanto	OWN
		39940	07/12/1974	R.D. 51	Monsanto	OWN
		162910	08/06/1986	R.D. 696	Monsanto	OWN
		162922	08/07/1986	R.D. 697	Monsanto	OWN
		41096103	05/10/1989	R.D. 924	Monsanto	OWN
		42765001	05/03/1993	R.D. 1165	Monsanto	OWN
164-2 Aquatic Sediment (TEP)	+	39942	07/12/1974	R.D. 51	Monsanto	OWN

EPA Reg. Nos. 524-NEW

ENVIRONMENTAL							
FAIE 40 CFR 158.290		DATA	EPA MRID	SUBMIT	MONSANTO		
(835 Series)	NO. STUDY NAME	REG'D	NUMBER	DATE	NUMBER	SUBMITTER	STATUS
		•	40881601	11/09/1988	R.D. 898	Monsanto	OWN
			42383201	06/29/1992	36/29/1992 R.D. 898 Supp	Monsanto	OWN
	164-3 Forestry (TEP)	+	84657	09/29/1981	R.D. 379	Monsanto	NMO
			93922	02/01/1982	R.D. 379	Monsanto	NMO
			162923	06/17/1983	R.D. 379	Monsanto	OWN
			134008	11/18/1983	R.D. 506	Monsanto	OWN
			162923	08/07/1986	R.D. 697	Monsanto	OWN
			41552801	06/02/1990	R.D. 993	Monsanto	NMO
	164-4 Combination and Tank Mixes	R					
	164-5 Soil, Long-Term (TEP)	RN					
4000000	ACCUMULATION STUDIES:						
•	165-1 Rotational Crops - Confined (PAIRA)	+	41543201	06/29/1990	R.D. 991	Monsanto	NWO
			41543202	06/29/1990	R.D. 991	Monsanto	OWN
			42372504	06/24/1992	R.D. 991, Supl	Monsanto	OWN
	165-2 Rotational Crops - Field (TEP)	+	108159	10/14/1977	R.D. 141	Monsanto	OWN

0 WN 0 WN 0 WN

Monsanto Monsanto Monsanto

R.D. 856 R.D. 220

02/23/1988 12/22/1978

40541305 108173

165-5 In Aquatic Non-target Organisms (TEP)

165-3 Imigated Crops (TEP) 165-4 In Fish (TGAI or PAIRA) Page 11 of 30

CHEMISTRY 40 CFR 158.240 (860 Series)

RESIDUE

Data Matrix: Glyphosate

EPA Reg. Nos. 524-NEW

					MONSANTO		
NO.	STUDY NAME	DATA REQ'D	EPA MRID NUMBER	SUBMIT	DOCUMENT NUMBER	SUBMITTER	STATUS
RESIDUE CHEMISTRY	HEMISTRY						
171-2	Chemical Identity (TGAI)	+	41228201	08/30/1989	R.D. 953	Monsanto	OWN
171-3	Directions for Use	(3)					
NATURE OF	NATURE OF THE RESIDUE:						
171-4(a)	Plants (PAIRA)	+	Appendix A				
171-4(b)	171-4(b) Livestock (PAIRA and Plant Metabolites)	+	40541301	02/23/1988	R.D. 856	Monsanto	OWN
		+	40541302	02/23/1988	R.D. 856	Monsanto	OWN
RESIDUE M	RESIDUE METHODOLOGY:						
	Residue Analytical Method - Plants (TGAI and						
171-4(c)	171-4(c) Metabolites)	+	108231	07/24/1979	R.D. 251	Monsanto	OWN
			164729	10/20/1986	R.D. 707	Monsanto	OWN
			40502601	01/29/1988	R.D. 849	Monsanto	OWN
	Residue Analytical Method - Animals (TGAI and						
171-4(d)	Metabolites)	+	40541303	02/23/1988	R.D. 856	Monsanto	OWN
	Hesidue Analytical Method - Water (1GAI and						
171-4	Metabolites)	+	159419	05/19/1986	R.D. 677	Monsanto	OWN
			40502605	01/29/1988	R.D. 848	Monsanto	OWN
171-4(e)	171-4(e) Storage Stability (PAI)(In Plants, Animal Products, a	+	40502605	01/29/1988	R.D. 848	Monsanto	OWN
		+	40532004	02/23/1988	R.D. 855	Monsanto	OWN
		+	41472002	04/02/1990	R.D. 977	Monsanto	OWN
		+	41573501	07/25/1990	R.D. 1005	Monsanto	OWN
		+	41940701	07/12/1991	R.D. 1051	Monsanto	OWN
MAGNITUD	MAGNITUDE OF THE RESIDUE.						
171-4(k)	Crop Field Trials (TEP)	+	Appendix B				
171-4(1)	Processed Food/Feed (EP)	+	Appendix B				
171-4(i)	Meat/Milk/Poultry/Eggs (TGA) or Plant Metabolites)	+	108115	07/12/1974	R.D. 51	Monsanto	OWN
i			40532001	02/23/1988	R.D. 855	Monsanto	NMO
			40232002	02/23/1988	H.D. 855	Monsanto	NA C

NR: See Appendix E for Explanaton of Non-Required Data

Contains Trade Secret or Otherwise Confidential Information of Monsanto Company

0051fr0072

Data Matrix: Glyphosate

Printed: 05/11/2001

EPA Reg. Nos. 524-NEW

RESIDUE								,
CHEMISTRY 40				•		MONSANTO		
CFR 158.240			DATA	EPA MRID	SUBMIT	DOCUMENT		
(860 Series)	NO.	STUDY NAME	REQ'D	NUMBER	DATE	NUMBER	SUBMITTER	
				40532003	02/23/1988	R.D. 855	Monsanto	NMO
				40532004	02/23/1988	R.D. 855	Monsanto	OWN

71-4(f)	71-4(f) Potable Water (EP)	+	Appendix C
71-4(g)	Fish (EP)	+	Appendix D
71-4(h)	Imigated Crops (EP)	+	Appendix B
71-4(I)	71-4(I) Food Handling (EP)	æ	•
71-5	Reduction of Residue	R	
71-6	Proposed Tolerances	(2)	

Directions for Use are contained in Product Labels or Section B of Petitions E Ø 6

Reasonable Grounds in Support of the Petition

Proposed Tolerances are contained in Section F of Petitions

Reasonable Grounds in Support of the Petition are contained in Section G of Petitions

772
00
12 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13
305

Monsanto Company
5
Information
ē.
Confidenti
6
therwise
õ
5
Secret c
o)
Trad
Contains

MONSANTO	DOCUMENT	NUMBER	
	SUBMIT	DATE	
	EPA MRID	NUMBER	
	DATA	REO'D	
		NO. STUDY NAME	NATURE OF THE RESIDUE: PLANTS
RESIDUE CHEMISTRY 40	CFR 158.240	(860 Series)	RESIDUE CHEMISTRY APPENDIX A

EPA Reg. Nos. 524-NEW

Data Matrix: Glyphosate

Printed: 05/11/2001

STATUS

SUBMITTER

正さ しつ コピローゼ	ALONE OF THE RESIDUE: TEANS					
171-4(a) Com		137903	07/12/1974	R.D. 51	Monsanto	NMO
		47778	07/12/1974	R.D. 51	Monsanto	OWN
Roui	Roundup Ready® Com	43712701	06/29/1995	R.D. 1306	Monsanto	OWN
Wheat	at	137903	07/12/1974	R.D. 51	Monsanto	OWN
		47778	07/12/1974	R.D. 51	Monsanto	N O
Soyt	Soybeans	137903	07/12/1974	R.D. 51	Monsanto	OWN
Rou	Roundup Ready® Soybeans	47778 43330601	07/12/1974 07/22/1994	R.D. 51 R.D. 1260	Monsanto Monsanto	NWO OWN
Cotton		137903	07/12/1974	R.D. 51	Monsanto	OWN
ć		47778	07/12/1974	R.D. 51	Monsanto	NWO NWO
noY	Houndup Ready® Collon	4427 330 1	1881/81/00	1781 .0.0	MOTSATIO	
Grapes	Sec	38981	10/04/1974		Monsanto	OWN
Citrus		41165	01/19/1976		Monsanto	OWN
Coffee	99	51983	06/01/1976		Monsanto	OWN
Sug	Sugarcane	61558	03/01/1976		Monsanto	OWN
Pon	Pome Fruit	108129	09/01/1976		Monsanto	OWN
Fore	Forage Grass and Legumes	108147	04/28/1978		Monsanto	OWN

Contains Trade Secret or Otherwise Confidential Information of Monsanto Company

005300072

Data Matrix: Glyphosate

Printed: 05/11/2001

RESIDUE CHEMISTRY 40 CFR 158.240 (860 Series)

EPA Reg. Nos. 524-NEW

, ON	STUDY NAME	DATA REQ'D	EPA MRID NUMBER	SUBMIT	MONSANTO DOCUMENT NUMBER	SUBMITTER	STATUS
	Sugar Beets		108152	12/09/1977		Monsanto	OWN
	Grapes		38771	10/04/1974	R.D. 53	Monsanto	OWN
	Nut Crops		111945	11/30/1976	R.D. 110	Monsanto	NMO
	Alfalfa	•	108133	12/31/1976		Monsanto	OWN
	Vegetables		108159	10/15/1977		Monsanto	OWN
	Roundup Ready® Canola		44541201	04/03/1998	R.D. 1408	Monsanto	OWN

NR: See Appendix E for Explanaton of Non-Required Data

Ξ
8
Ò
Ξ
2
õ
÷
Φ
⊇.
م

EPA Reg. Nos. 524-NEW

SUBMITTER STATUS		Monsanto OWN	Monsanto OWN Monsanto OWN Monsanto OWN		Monsanto OWN Monsanto OWN	Monsanto OWN Monsanto OWN Monsanto OWN Monsanto OWN	Monsanto OWN Monsanto OWN Monsanto OWN Monsanto OWN	IR-4 PER
MONSANTO DOCUMENT NUMBER SI	ODITES	_	R.D. 141 N R.D. 148 N		R.D. 878 N R.D. 1338 N		R.D. 1236 N R.D. 1384 N R.D. 1384 N R.D. 1384 N	3204
SUBMIT	SSED COMIN	10/14/1977	09/25/1975 10/14/1977 12/09/1977	07/15/1991 07/15/1991 01/22/1996	07/29/1988 01/22/1996	10/14/1977 12/09/1977 09/25/1975 07/29/1988	07/19/1994 07/11/1997 07/11/1997 07/11/1997	10/03/1988
EPA MRID NUMBER	AND PROCE	108159	39381 108159 108151 40785302	41947001 41947002 43906101	40785302 43906101	108159 108151 39381 40785304	43315703 44331601 44331602 44331603	40835201
DATA REQ'D	ATED CROPS,							
NO. STUDY NAME	MAGNITUDE OF THE RESIDUE: CROPS, IRRIGATED CROPS, AND PROCESSED COMMODITES	171-4(k,l) ROOT AND TUBER VEGETABLES GROUP: Beets, garden Carrots Radishes	Polatoes		Processed Potato Commodities	Sugar Beets	Roundup Ready® Sugar Beets	Sweet Potatoes Turnip
ا ۲۷ مل 40 (s	HESILUE CHEMISTRY APPENDIX B MAG	•						

=
8
\approx
7
-
-
5
0
eq
I
-
_

EPA Reg. Nos. 524-NEW

524-NEW	STATUS	NMO	NWO OWN	PER		OWN		OWN PER PER		OWN	OWN OWN
	SUBMITTER	Monsanto	Monsanto Monsanto Monsanto	IR-4		Monsanto		Monsanto IR-4 IR-4		Monsanto Monsanto Monsanto	Monsanto Monsanto Monsanto
	MONSANTO DOCUMENT NUMBER		R.D. 141 R.D. 1384 R.D. 141	08/08/1988 3205, -06, -07		R.D. 141		R.D. 141 3210 3211		R.D. 141 R.D. 1481 R.D. 1481	R.D. 141 R.D. 1312 R.D. 1092
	SUBMIT	09/25/1975	10/14/1977 07/11/1997 10/14/1977	08/08/1988		10/14/1977		10/14/1977 08/18/1988 08/18/1988		10/14/1977 05/21/1999 05/21/1999	10/14/1977 09/27/1995 05/01/1992
	EPA MRID NUMBER	39381	108159 44331601 108159	40783101	á:	108159		108159 40802801 40802802		108159 44837501 44837502	108159 43807201 42312804
	DATA REQ'D	GROUP:			SETABLES) GROU						
	NO. STUDY NAME	171-4(k,I) LEAVES OF ROOT AND TUBER VEGETABLES GROUP: Sugar Beet Tops	Roundup Ready® Sugar Beets Carrot Tops	171-4(k,l) BULB VEGETABLE GROUP: Onions, Leeks, Garlic	171-4(k,I) LEAFY VEGETABLES (EXCEPT BRASSICA VEGETABLES) GROUP:	Lettuce	171-4(k,I) BRASSICA LEAFY VEGETABLES GROUP:	Cabbage Broccoli Mustard Greens	171-4(k,I) LEGUME VEGETABLES GROUP:	Dried Beans	Lentils Peas Peas (import)
	RESIDUE CHEMISTRY 40 CFR 158.240 (860 Series)										

Page 17 of 30

Data Matrix: Glyphosate

524-NEW EPA Reg. Nos.

> CHEMISTRY 40 CFR 158.240 (860 Series) RESIDUE

					MONSANTO		
		DATA	EPA MRID	SUBMIT	DOCUMENT		
NO.	STUDY NAME	REQ'D	NUMBER	DATE	NUMBER	SUBMITTER	STATUS
	Dry Beans - Canada		44837501	05/20/1999	R.D. 1481	Monsanto	OWN
			44837502	05/20/1999	R.D. 1481	Monsanto	OWN
	Snap Beans		108159	10/14/1977	R.D. 141	Monsanto	OWN
	Soybeans/Soybean Processing Commodities		123953	11/12/1973	R.D. 47	Monsanto	OWN
			38908	07/12/1974	R.D. 51	Monsanto	OWN
			33954	12/19/1975	R.D. 86	Monsanto	OWN
			61555	03/01/1976	R.D. 92	Monsanto	OWN
			108153	06/17/1977	R.D. 132	Monsanto	OWN
			24503	12/12/1977	R.D. 145	Monsanto	OWN
			108203	07/06/1978	R.D. 187	Monsanto	OWN
			84936	10/21/1981	R.D. 380	Monsanto	OWN
			156793	02/21/1986	R.D. 617	Monsanto	OWN
			43260401	05/27/1994	R.D. 1232	Monsanto	OWN
			43260402	05/27/1994	R.D. 1232	Monsanto	OWN
			43260403	05/27/1994	R.D. 1232	Monsanto	OWN

171-4(k,l) FOLIAGE OF LEGUME VEGETABLES GROUP:

		R.D. 47	R.D. 51	R.D. 86	R.D. 92
		11/12/1973	07/12/1974	12/19/1975	03/01/1976
		123953	38908	33954	61555
Bean Vines and Hay	Lentil Forage and Hay	Soybean Forage and Hay			

OWN OWN

Monsanto Monsanto Monsanto

OWN

Monsanto

Monsanto Monsanto

OWN OWN OWN

Monsanto Monsanto

R.D. 380 R.D. 617

02/21/1986

156793

84936

10/21/1981

R.D. 187 R.D. 132

07/06/1978

06/17/1977

108153 108203

171-4(k,I) FRUITING VEGETABLES (EXCEPT CURCURBITS) GROUP:

Contains Trade Secret or Otherwise Confidential Information of Monsanto Company NR: See Appendix E for Explanaton

of Non-Required Data

005600072

Page 18 of 30

Contains Trade Secret or Otherwise Confidential Information of Monsanto Company

Printed: 05/11/2001 CHEMISTRY 40 CFR 158.240 RESIDUE

Data Matrix: Glyphosate

EPA Reg. Nos. 524-NEW

STATUS SUBMITTER MONSANTO DOCUMENT NUMBER SUBMIT DATE **EPA MRID** NUMBER DATA REQ'D

171-4(k,I) CURCURBITS VEGETABLES GROUP

STUDY NAME

ġ

(860 Series)

171-4(k,I) CITRUS FRUITS GROUP:

OWN NW0 NMO NMO Monsanto Monsanto Monsanto R.D. 108 R.D. 107 R.D. 88 R.D. 89 R.D. 766 01/19/1976 01/19/1976 09/01/1976 04/10/1987 40159401 44496 39142 108129 Citrus/Citrus Processed Commodities

171-4(k,l) POME FRUITS GROUP:

171-4(k,I) STONE FRUTS GROUP:

Plums

07/29/1988 40785301

R.D. 878 R.D. 1236 07/19/1994 43315701

OWN OWN

Monsanto Monsanto PER PER OWN

IR-4 IR-4

R.D. 314

08/02/1988

40779101

53002

38770

09/10/1980

Monsanto Monsanto Monsanto Monsanto

OWN OWN

OWN

R.D. 1236

13315702

10785303

108132

R.D. 118 R.D. 878

R.D. 53 3505

> 10/04/1974 12/31/1976 07/29/1988 07/19/1994

OWN

Monsanto Monsanto

09/01/1976

108186

171-4(k,l) SMALL FRUITS AND BERRIES GROUP:

Blackberries

Cranberries Blueberries

Grapes/Raisins

Strawberries Raspberries

Data Matrix: Glyphosate

EPA Reg. Nos. 524-NEW

> CHEMISTRY 40 CFR 158.240 (860 Series) RESIDUE

NO.	STUDY NAME	DATA	EPA MRID NUMBER	SUBMIT	MONSANTO DOCUMENT NUMBER	SUBMITTER	STATUS
171-4(k,l)	TREE NUTS:						
	Almond, Almond Hulls, Macadamia, Pecan, Walnut		111945	11/30/1976	R.D. 109	Monsanto	OWN
			42155301	01/03/1992	R.D. 1043	Monsanto	OWN
			42155302	01/03/1992	R.D. 1043	Monsanto	OWN

171-4(k,l) CEREAL GRAINS GROUP:

Barley	38908	07/12/1974	R.D. 51	Monsanto	OWN
	108203	07/06/1978	R.D. 187	Monsanto	OWN
Barley (import)	42312801	05/01/1992	R.D. 1092	Monsanto	OWN
	42312802	05/01/1992	R.D. 1092	Monsanto	OWN
	43807202	09/27/1995	R.D. 1312	Monsanto	OWN
	43827802	09/27/1995	R.D. 1312	Monsanto	OWN
	43845401	09/27/1995	R.D. 1312	Monsanto	OWN
Com Grain	123953	11/12/1973	R.D. 47	Monsanto	OWN

OWN OWN OWN OWN OWN OWN OWN OWN

Monsanto Monsanto

R.D. 80 R.D. 85

Monsanto Monsanto Monsanto Monsanto

R.D. 144 R.D. 150 R.D. 187 R.D. 231 R.D. 486 R.D. 848

12/12/1977 12/12/1977 07/06/1978 03/30/1979 10/12/1983 01/29/1988

108203

Monsanto

07/12/1974 05/15/1975 12/19/1975

38908 48284 49054 23336 23268

Roundup Ready® Corn

OWN OWN OWN OWN Monsanto Monsanto Monsanto Monsanto Monsanto R.D. 1409 R.D. 1237 R.D. 1501 R.D. 1306 05/19/1995 03/16/2000 06/29/1995 04/02/1998 33/23/2000 45066901 43712702 44531301 43655701 15077401

Monsanto

Monsanto

10502602

130807

37687

EPA Reg. Nos. 524-NEW

4050		Com Oil/Com Milled Products		
NOM	RECYD	STUDY NAME	No.	(860 Series)
EPA !	DATA			CFR 158.240
				CHEMISTRY 40
				RESIDUE

	DATA	CION MOID	FINGIS	MONSANTO		
STUDY NAME	REGID	NUMBER	DATE	NUMBER	SUBMITTER	STATUS
Com Oil/Com Milled Products		40502604	01/29/1988	R.D. 848	Monsanto	NWO
		41478101	04/02/1990	R.D. 978	Monsanto	OWN
		43655702	05/19/1995	R.D. 1237	Monsanto	OWN
Oat Grain		38908	07/12/1974	R.D. 51	Monsanto	OWN
		108203	07/06/1978	R.D. 187	Monsanto	OWN
Oats / Processed Oats (Preharvest Import Tolerance)		43870201	11/16/1995	R.D. 1326	Monsanto	NW0
		43870202	11/16/1995	R.D. 1326	Monsanto	OWN
		43870203	11/16/1995	R.D. 1326	Monsanto	NWO
		43870204	11/16/1995	R.D. 1326	Monsanto	OWN
		43927401	11/16/1995	R.D. 1326	Monsanto	OWN
		43927402	11/16/1995	R.D. 1326	Monsanto	OWN
Rice Grain		38908	07/12/1974	R.D. 51	Monsanto	OWN
Sorghum Grain		38908	07/12/1974	R.D. 51	Monsanto	OWN
		108203	07/06/1978	R.D. 187	Monsanto	OWN
		109271	04/09/1982	R.D. 410	Monsanto	OWN
		103375	06/04/1982	R.D. 423	Monsanto	OWN
		130807	10/12/1983	R.D. 486	Monsanto	OWN
		144722	10/10/1984	R.D. 555	Monsanto	OWN
		40502601	01/29/1988	R.D. 849	Monsanto	OWN
		43342001	08/15/1994	R.D. 1192	Monsanto	OWN
		44646601	09/01/1998	R.D. 1434	Monsanto	OWN
Grain Sorghum Processed Products		40502603	01/29/1988	R.D. 849	Monsanto	OWN
		41472001	04/02/1990	R.D. 977	Monsanto	OWN
		43342002	08/15/1994	R.D. 1192	Monsanto	OWN
Wheat Grain		123953	11/12/1973	R.D. 47	Monsanto	OWN
		38908	07/12/1974	R.D. 51	Monsanto	OWN
		108203	07/06/1978	R.D. 187	Monsanto	OWN
		122715	12/02/1982	R.D. 460	Monsanto	OWN
		150835	11/13/1984	R.D. 561	Monsanto	OWN
		41484301	04/16/1990	R.D. 983	Monsanto	OWN

Page 21 of 30

Data Matrix: Glyphosate

EPA Reg. Nos. 524-NEW

> Roundup Ready® Wheat STUDY NAME Š. **CHEMISTRY 40** CFR 158.240 (860 Series) RESIDUE

STATUS	OWN	OWN
SUBMITTER	Monsanto	Monsanto
MONSANTO DOCUMENT NUMBER	R.D. 1512	R.D. 561
SUBMIT	07/19/2000	11/13/1984
EPA MRID NUMBER	45174701	150835
DATA REQ'D		

171-4(k,I) FORAGE, FODDER, AND STRAW OF CEREAL GRAINS GROUP:

Wheat Milled Products

Barley Forage, Hay, and Straw	38908	07/12/1974	R.D. 51	Monsanto	OWN
	108203	07/06/1978	R.D. 187	Monsanto	OWN
Com Forage, Silage, and Fodder	123953	11/12/1973	R.D. 47	Monsanto	NMO
	38908	07/12/1974	R.D. 51	Monsanto	OWN
	49054	12/19/1975	R.D. 85	Monsanto	NWO
	48284	05/15/1975	R.D. 80	Monsanto	NWO
	23336	12/12/1977	R.D. 144	Monsanto	NMO
	23268	12/12/1977	R.D. 150	Monsanto	NMO
	108203	07/06/1978	R.D. 187	Monsanto	OWN
	37687	03/30/1979	R.D. 231	Monsanto	OWN
	130807	10/12/1983	R.D. 486	Monsanto	OWN
	40502602	01/29/1988	R.D. 848	Monsanto	OWN
	43655701	05/19/1995	R.D. 1237	Monsanto	OWN
	43712702	06/29/1995	R.D. 1306	Monsanto	OWN
	45066901	03/16/2000	R.D. 1501	Monsanto	OWN
	45077401	03/23/2000	R.D. 1502	Monsanto	NWO
Oat Forage, Hay, and Straw	38908	07/12/1974	R.D. 51	Monsanto	NW.O
•	108203	07/06/1978	R.D. 187	Monsanto	NMO
Rice Straw	38908	07/12/1974	R.D. 51	Monsanto	OWN
Sorghum Forage, Fodder, Silage, and Hay	38908	07/12/1974	R.D. 51	Monsanto	OWN
	108203	07/06/1978	R.D. 187	Monsanto	OWN
	109271	04/09/1982	R.D. 410	Monsanto	OWN
	103375	06/04/1982	R.D. 423	Monsanto	OWN
	130807	10/12/1983	R.D. 486	Monsanto	OWN

Data Matrix: Glyphosate

EPA Reg. Nos. 524-NEW

	RESIDUE CHEMISTRY 40 CFR 158.240 (860 Series)																								
	NO.										171-4(k,			171-4(k,							171-4(k,				
	STUDY NAME			Wheat Forage, Hay, and Straw							171-4(k,l) GRASS FORAGE, FODDER, AND HAY GROUP:			171-4(k,l) NONGRASS ANIMAL FEEDS GROUP:		Alfalfa Seed and Hay					171-4(k,I) MISCELLANEOUS COMMODITIES	Accord	Asparadus		Avocados
	DATA REG'D																								
	EPA MRID NUMBER	144722	40502601	123953	38908	108203	122715	150835	41484301	45174701	108147	53004	76805	45089401		108133	108147	53004	76805	43077001			108144	40642401	108149
	SUBMIT	10/10/1984	01/29/1988	11/12/1973	07/12/1974	07/06/1978	12/02/1982	11/13/1984	04/16/1990	07/19/2000	04/28/1978	09/12/1980	05/08/1981	03/27/2000		12/31/1976	04/28/1978	09/12/1980	05/08/1981	12/16/1993			02/17/1978	04/04/1988	11/15/1977
	MONSANTO DOCUMENT NUMBER	R.D. 555	R.D. 849	R.D. 47	R.D. 51	R.D. 187	R.D. 460	R.D. 561	R.D. 983	R.D. 1512	R.D. 175	R.D. 313	R.D. 359	R.D. 1494	(R.D. 117	H.D. 175	R.D. 313	H.D. 359	R.D. 856			R.D. 157	3212	R.D. 147
	SUBMITTER	Monsanto	Monsanto	Monsanto	Monsanto	Monsanto	Monsanto	Monsanto	Monsanto	Monsanto	Monsanto	Monsanto	Monsanto	Monsanto	;	Monsanto	Monsanto	Monsanto	Monsanto	Monsanto			Monsanto	IR-4	Monsanto
524-NEW	STATUS	OWN	OWN	OWN	OWN	OWN	OWN	OWN	OWN	OWN	NMO	OWN	OWN	NMO		NMO	OWN	OWN	NMO	N N			OWN	PER	NWO

CHEMISTRY 40 CFR 158.240 (860 Series)

RESIDUE

Data Matrix: Glyphosate

EPA Reg. Nos. 524-NEW

					OTIVE		
		DATA	EPA MRID	SUBMIT	DOCUMENT		
NO.	STUDY NAME	REQ'D	NUMBER	DATE	NUMBER	SUBMITTER	STATUS
	Bananas (including Plantains)		108175	06/14/1979	R.D. 244	Monsanto	NWO
	Breadfruit		41049401	1989	3474	IR-4	PER
	Canistel		41049401	1989	3474	IR-4	PER
	Canola /Oilseed Rape / Processing		42312803	05/01/1992	R.D. 1092	Monsanto	OWN
			43807203	09/27/1995	R.D. 1312	Monsanto	OWN
	Roundup Ready® Canola		44528801	04/03/1998	R.D. 1408	Monsanto	OWN
			44528802	04/03/1998	R.D. 1408	Monsanto	OWN
			44528803	04/03/1998	R.D. 1408	Monsanto	OWN
			44528804	04/03/1998	R.D. 1408	Monsanto	NW0
	Coconut, Coconut Oil			03/09/1982	R.D. 411	Monsanto	NW0
	Coffee		51981	06/01/1976	R.D. 102	Monsanto	OWN
	Cottonseed		123953	11/12/1973	R.D. 47	Monsanto	OWN
			61553	03/01/1976	R.D. 92	Monsanto	OWN
			108176	05/17/1976	R.D. 100	Monsanto	OWN
			108153	06/17/1977	R.D. 132	Monsanto	OWN
			108203	07/06/1978	R.D. 187	Monsanto	OWN
			60103	11/03/1980	R.D. 322	Monsanto	NMO
	Cotton Forage and Hay		123953	11/12/1973	R.D. 47	Monsanto	OWN
			61553	03/01/1976	R.D. 92	Monsanto	OWN
			108163	05/17/1976	R.D. 100	Monsanto	OWN
			60103	11/03/1980	R.D. 322	Monsanto	OWN
	Cotton Processing Fractions		61555	03/01/1976	R.D. 92	Monsanto	OWN
	Roundup Ready® Cotton		43571801	03/06/1995	R.D. 1297	Monsanto	NM:O
	Dates		41049401	1989	3474	IR-4	PER
	Guava		59050	11/19/1980		IR-4	PER
	Jackfruit		41049401	1989	3474	IR-4	PER
	Jabotica	1	41049401	1989	3474	IR-4	PER

Page 24 of 30

PER OWN

IR-4 Monsanto

3213 R.D. 278

04/04/1988 11/26/1979

40580401

Oil Seeds (Flax, Mustard, Rape, Sunflower)

Kiwi Fruit Mangos

UE ISTRY 40 58.240 eries)		_	_	N
ESID HEM FR 1	ESIDUE	HEMISTRY 40	FR 158.240	60 Series)

				MONSANTO		
	DATA	EPA MRID	SUBMIT	DOCUMENT		
Oil Sood Bane / Canola (Import)	REGID	NUMBER	DAIE	NUMBER	SUBMITTER	STATUS
Oil Seed nape / Calibia (Illiport)		4382/801	09/2//1895	H.D. 1312	Monsanto	OWN
		43807203	09/27/1995	R.D. 1312	Monsanto	OWN
Olives, Processed		108175	06/14/1979	R.D. 244	Monsanto	OWN
		42398401	07/08/1992	R.D. 1115	Monsanto	OWN
Olive Oil		108175	06/14/1979	R.D. 244	Monsanto	OWN
		42398401	07/08/1992	R.D. 1115	Monsanto	OWN
Palm Oils			08/02/1976	R.D. 106	Monsanto	OWN
Papayas		63713	11/20/1980	ċ	Monsanto	OWN
Peanuts/Peanut Forage and Hay		28856	02/18/1980	R.D. 289	Monsanto	OWN
		144341	09/12/1984	R.D. 552	Monsanto	OWN
		40750702	06/20/1988	R.D. 875	Monsanto	OWN
Peanut Processed Commodities		144341	09/12/1984	R.D. 552	Monsanto	OWN
		40750702	06/20/1988	R.D. 875	Monsanto	OWN
Pineapple		43824301	10/18/1995	R.D. 1325	IR-4	PER
		43824302	10/18/1995	R.D. 1325	IR-4	PER
Pistachio Nuts		111945	11/30/1976	R.D. 110	Monsanto	OWN
Sapote		41049401	1989	3474	IR-4	PER
Soursop		41049401	1989	3474	IR-4	PER
Sugarcane		61558	03/01/1976	R.D. 93	Monsanto	OWN
		108140	06/21/1976	R.D. 104	Monsanto	OWN
		136876	03/01/1978	R.D. 163	Monsanto	OWN
		108168	08/25/1978	R.D. 197	Monsanto	OWN
Sugarcane Processed Commodities		108140	06/21/1976	R.D. 104	Monsanto	OWN
Tea, Instant Tea		78823	06/30/1981	R.D. 369	Monsanto	OWN

Page 25 of 30

Data Matrix: Glyphosate

EPA Reg. Nos. 524-NEW

TER STATUS		loc. 1 PL	O	unto OWN		Joc.2 PL	O	unto OWN	anto OWN	anto OWN	anto OWN	anto OWN
SUBMITTER		Public Doc.	Monsanto	Monsanto	Monsanto	Public Doc.2	Monsanto	Monsanto	Monsanto	Monsanto	Monsanto	Monsanto
MONSANTO DOCUMENT NUMBER												
SUBMIT		09/25/1975	09/25/1975	09/25/1975	09/25/1975	09/25/1975	09/25/1975	09/25/1975	12/22/1978	12/22/1978	12/22/1978	06/29/1981
EPA MRID NUMBER		39381	36224	39381	36224	39381	36224	36224	108173	108173	108173	77238
DATA REQ'D	EB											
STUDY NAME	MAGNITUDE OF THE RESIDUE: POTABLE WATER	Canals		Flooded Levees		Ponds		Potable Water Treatment	Ditchbank / Flowing Water	Shoreline / Impounded Water	Total Area / Impounded Water	Whole Cross-Section / Flowing Water 1 R.D. Comes. USDA/ARS. Prosser, Washington.
ON.	MAGNITUDE	171-4(f) Canals										
RESIDUE CHEMISTRY 40 CFR 158.240 (860 Series)	RESIDUE CHEMISTRY APPENDIX C											

Data Matrix: Glyphosate

EPA Reg. Nos. 524-NEW

Data Matrix: Glyphosate	
Printed: 05/11/2001	

Printed: 05/11/2001	Data Mat	Data Matrix: Glyphosate 524-NEW
No.	Study Name	EXPLANATION
APPENDIX E	EXPLANATION OF DATA NOT REQUIRED TO SUPPO	WHRED TO SUPPORT REGISTRATION
40 CFR 158.15 -190	PRODUCT CHEMISTRY	
9-69	Boiling Point (TGAI)	Data is required only if the technical material is a liquid at room temperature. Glyphosate is a solid.
63-18	Viscosity (MP)	Data is required if the material is a liquid. Glyphosate is a solid.
63-19	Miscibility (MP)	Data is required if the material is an emulsifiable liquid. Glyphosate is a water-soluble solid.
63-19	Miscibility (EP)	Data is required is the product is an emulsifiable liquid. Roundup herbicide is a ready-to-use liquid, not to be diluted.
63-21	Dielectric Breakdown Voltage (EP)	Data is required for liquid products that are used around electrical equipment. When Roundup is applied as a herbicide there is virtually no circumstance where it would be in contact with electrical equinment.
40 CFH 158.340	TOXICOLOGY	mouthby manners are
81-3	Inhalation LC50 - Rat (MP & TGAI)	Requirement waived by EPA on 1/5/88.
	-	Data is required if repeated contact with human skin is expected. Glyphosate is not used in a manner where
81-6	Dermal Sensitization (MP)	such contact is likely.
		Not required unless test material is an organophosphate, or a metabolite or degradation product which
81-7	Acute Delayed Neurotoxicity - Hen (TGA))	causes acetyl cholinesterase depression, or is structurally related to a substance that causes delayed neurotoxicity. Glymbosate does not trioner this
		Data are needed if product used for purposeful dermal application to, or prolonged exposure of, human skin:
		or if pesticidal use will result in comparable exposure (e.g., swimming pool) or if other study criteria are met.
85-3	90-Day Dermal (TGAI)	Glyphosate does not trigger this
82-4	90-Pay Inhalation - Bat (TGAI)	Data is required if the use may result in repeated inhalation exposure at a concentration likely to be toxic. The use pattern for plymbosate does not warrant this testing
		Data is required if acute delayed neurotoxicity test showed neuropathy or neurotoxicity; or if closely related
82-5	90-Day Neurotoxicity - Hen (TGAI)	structurally to a compound which can induce these effects. Glyphosate does not cause acute neurotoxicity.
1		Data is required if acute oral, dermal or inhalation studies showed neuropathy or neurotoxicity. Glyphosate
82-5	90-Day Neurotoxicity - Mammal (TGAI)	does not trigger this testing.
		Required on a case-by-case basis. The known properties of glyphosate and the registered uses do not
86-1	Domestic Animal Safety Will Dil IEE ANID ADI IATIC OBGANISMS	warrant this testing.
40 CFI 130 430	MICHIEL AND AGGRES ON GRANDING	Tests are required on a case-by-case basis depending on the results of lower tier studies such as acute and
71-3	Wild Mammal Toxicity (TGAI)	subacute testing, intended use pattern, and pertinent environmental properties. Results from other ghyphosate studies have not triggered this.

7
/11/200
ted: 05
Prin

Data Matrix: Glyphosate EPA Reg. Nos. 524-NEW	EXPLANATION	KURED TO SUPPORT REGISTRATION	Data are required on a case-by-case basis depending on the results of lower tier studies such as acute and	subacute marminas and birds (TEP) testing, intended use pattern, and environmental properties. Results from other dyphosate studies do not trigger.	_		Data are required only for Special Review and certain public health situations.	Required if >25% detrimental effect in one or more plant species was found in the corresponding Tier I test. Glyphosate does not trioder this requirement	Required if >25% detrimental effect in one or more plant species was found in the corresponding Tier II test.	Glyphosate does not trigger this requirement.	Required if >50% detrimental effect on any plant species was found in the corresponding Tier II test.	Glyphosate does not trigger this requirement.		As data from acute study indicate very low toxicity, no further testing is required.	As data from acute study indicate very low toxicity, no further testing is required.		Glyphosate is applied to undesirable grass and broadleaf weeds to control or otherwise mitigate their growth	or competition with crops, turf or ornamentals. It is unlikely that people would contact such treated	vegetation on a regular or extended basis.		Waived by the Agency on May 15, 1992.	Not required if anaerobic aquatic metabolism study has been conducted.	Waived by the Agency on May 15, 1992.	Waived by the Agency on May 15, 1992.	The Agency has not requested any specific studies. However, glyphosate tank mix residue data are	available under the 40 CFR 158.240 Residue Data section of this data package.	Required if pesticide residues do not dissipate readily in soil. Glyphosate has a sufficiently short half-life in	soil that this study has not been required.	
Data N	Study Name	EXPLANATION OF DATA NOT REQUIRED TO SUPI		Simulated and Actual Field Testing -	Simulated or Actual Field Testing - Aquatic Organisms (TEP)	PLANT PROTECTION	Target Area Phytotoxicity (TEP)	Tier II Seed Germination / Seedling Emergence (TGAI)		Her III Terrestrial Field (TEP)	T - T - T - T - T - T - T - T - T - T -	IEF III Aquauc Fleid (EF)	NON!AHGE! INSEC!	Honeybee - Toxicity of Residues on Foliage (TEP)	Field Testing for Pollinators (TEP)	REENTRY PROTECTION			132-1 through 133-4	ENVIHONMENTAL FAIE	Photodegradation In Air (TGAI or PAIRA)	Anaerobic Soil (TGAI or PAIRA)	Volatility - Lab (TEP)	Volatility - Field (TEP)		Combination and Tank Mixes		Soil Dissipation, Long-Term (TEP)	REGILVE VIEWBHIN
Printed: 05/11/2001	No.	APPENDIX E		71-5	72-7	40 CFH 158 540	121-1	123-1		124-1	7 7 7	7-471	40 CFR 108,040	141-2	151-5	40 CFR 158.390		:	132-1 thro	#U CFR 138 290	161-4	162-2	163-2	163-3		164-4		164-5	247'00'1 L1 10' D#

_
8
1/2
5/1
5
ie.
Pri

EPA Reg. Nos. 524-NEW

	Shirty Namo	NOTE AN ELECTION OF THE PROPERTY OF THE PROPER
<u>:</u>	Study (valide	EVELAKATION
APPENDIX E	EXPLANATION OF DATA NOT REQUIRED TO SUPPO	QUIRED TO SUPPORT REGISTRATION
		Data on residues in food or feed in food handling establishments are required whenever a pesticide is to be
		used in food/feed handling establishments. Glyphosate end-use products are not used in such
171-4	Food Handling (EP)	establishments.
		Reduction of residue is required when the assumption of tolerance level residues results in an unsafe level of
171-5	Reduction of Residue	exposure. The registered uses of glyphosate do not trigger this requirement.

Part II Petition for Registration of a New Pesticide Product



MON 78307 Herbicide EPA Reg No. 71995-new €○

[Editorial Notes: Bracketed text [] is for internal use or serves as a 'place holder' for graphics. Parenthetical text () denotes optional wording.]

[Refer to APPENDIX 1 for consolidated list of label claims.]

[Refer to APPENDIX 2 for packaging related claims/instructions]

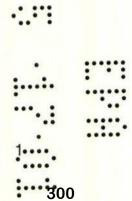
Sepercededly lotel 10/29/01

MON 78307 Herbicide

KEEP OUT OF REACH OF CHILDREN CAUTION

See back panel booklet for additional precautionary statements. (Read precautions and directions on back label.)

NET [xxx]



Product F	acts
	o xx sq ft (approx. size of XX tennis courts)
[When call is 2,106 s	culating coverage, one gallon treats 300 sq ft and a tennis court q ft.]
KILLS	[Illustrate grassy, broadleaf and woody weeds]
WEEDS	ALL TYPES OF WEEDS & GRASSES
WHERE	On patios, walkways, driveways, gravel or mulch beds
TO USE	Around flowers, shrubs or trees
	Along fences
	In large areas - For lawn replacement
	 For flower (ornamental) garden plot
	preparation
AMOUNT	For best results
TO USE	6 fl oz (12 Tbs) per gallon of water
[phone icor	Questions, Comments or Medical Information
	call 1-800-225-2883 <u>www.roundup.com</u>
	(call 1-888-Roundup)

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

MIXING INSTRUCTIONS

[optional tank sprayer illustration]

Tank Sprayer (plastic, aluminum, fiberglass, plastic-lined steel or stainless steel. (Do not (mix, store or) apply with (in) a galvanized or unlined steel sprayer.)

- (For tough established weeds / For best results,) add 6 fl oz (12 Tbs) to 1 gallon of water.
- (For easy to kill weeds such as small seedlings, add 3 fl oz (6 Tbs) to 1 gallon of water.)
- (Spot treat or spray evenly over 300 sq ft.)

[optional DNS illustration]

Hose-End Sprayer

For large areas consider using the Ortho Dial 'n Spray®

- Set dial to 51/3 or 6 oz.
- To sprayer jar add 6 fl oz (12 Tbs) for each 300 sq ft. DO NOT ADD WATER.
- Spray evenly over measured area.
- After spraying, unused product can be poured back into its original container.



MON 78307 Herbicide EPA Reg No. 71995-new- €0

1 Tablespoon (Tbs) = 3 teaspoons (tsp)

1 fl oz = 2 Tbs

Do not (mix, store or) apply with (in) a galvanized or unlined steel (except stainless steel) sprayer, or through any irrigation system.

To clean sprayer after use, rinse sprayer and all sprayer parts with water 3 times. Spray rinse water on bare soil or gravel. After cleaning, sprayer may be used for other products.

HOW TO APPLY [optional illustration]

- Spray the weeds or grasses you want to kill until thoroughly wet.
- When spot treating weeds around desirable plants, shield plants from drift with a sheet (piece) of cardboard or plastic. If desirable plants are accidentally sprayed, rinse off immediately with water.

IMPORTANT: Do not spray plants or grasses you like - they may die too. Not recommended for spot weed control in lawns since MON 78307 kills lawn grasses.

WHEN TO APPLY [optional illustration]

- Use anytime weeds and grasses are actively growing. (Apply when weeds are actively growing.)
- For best results, apply during warm, sunny weather (above 60° F) to accelerate systemic movement from foliage to roots.
- Apply when air is calm to prevent drift to desirable plants.
- (RAIN-PROOF:) Rain or watering 2 hours (30, 60, or 90 minutes) after application will not wash away effectiveness.
- (Apply when weeds are small and before seeds form. Established (Hard to kill) weeds may require a repeat application.)

ADDITIONAL TIPS [optional illustration]

To Kill Vines

- If vines are growing up poles, fences, or tree trunks with mature bark, cut vines to a height of 3 to 4 feet and spray vines thoroughly.
- If vines are climbing shrubs or tree trunks with green bark, cut vines at base and treat as directed for stumps or spray regrowth. If spraying regrowth, shield shrubs and green bark from spray drift with a sheet (piece) of cardboard or plastic.

To Kill Stumps

- Cut living stump close to ground.
- Drive 4 to 5 holes into freshly cut stump.

MON 78307 Herbicide EPA Reg No. 71995-new €0

Immediately pour undiluted product into holes.

For Lawn Replacement

Use MON 78307 to kill a (an old) (an unwanted) lawn and (its) weeds before planting (a) new lawn (OR prior to laying a patio, sidewalk, or driveway).

- Skip one mowing before spraying.
- Use 6 fl oz (12 Tbs) per gallon of water for each 300 sq ft.
- Wait 7 days after last application to rake, till or replant with seed or sod. [Alternate text]
 - Wait 7 days for weeds and lawn to die. Repeat if necessary.
 - Rake or till to prepare area for planting seed or sod.
- (If green patches remain after 7 days, reapply.)
- If soil is dry, water before application and 2 to 3 days after application.

[Alternate section]

- (Great) (MON 78307) Project: Lawn Renovation
 Use MON 78307 to kill sections of a weed-infested lawn before reseeding.
 - Apply MON 78307 to lawn weeds and grasses at a rate of 6 fl oz (12 Tbs) per gallon of water (covers 300 sq ft.)
 - Wait 7 days after application to rake, till or replant with seed or sod.
 - Work (1" of) Scotts Lawn Soil with Starter Fertilizer into existing soil, mixing well.
 - For thick, green grass guaranteed -- spread Scotts Pure Premium (or other Scotts grass seed) and water regularly (daily) to keep area moist (follow package instructions).
 - For best results, add a thin layer of Scotts Miracle-Gro Sphagnum Peat Moss over the area to help seeded area stay moist throughout germination period.

Kudzu

For best results, apply in mid to late summer when vines are mature and actively growing.

Wild Blackberry

Spray anytime plants are actively growing. Dead canes should be cut down and removed. Reapplication is often required to kill deep roots.

Poison Ivy & Poison Oak

Contact with these plants anytime of the year can cause an allergic reaction. Spray anytime plants are actively growing, but at least 4 weeks before the first killing frost in the fall. Reapply, if new growth appears. Handle dead plants with rubber gloves. Dispose of plants and rubber gloves in tightly sealed garbage bags.

For Flowerbed (Ornamental Plot) Preparation

Use MON 78307 to kill weeds, grasses and brush before planting flowers.

- If soil is dry, water before application and 2 to 3 days after application.
- Apply evenly over treatment area.

MON 78307 Herbicide EPA Reg No. 71995-new EO

Wait 2 days before planting.

[Alternate section]

- (Great) (MON 78307) Project: Flower Garden Preparation
 Use MON 78307 to kill unwanted weeds and grasses before planting flowers, trees
 or shrubs.
 - Apply MON 78307 to vegetation in planting bed at a rate of 6 fl oz (12 Tbs) per gallon of water (covers 300 sq ft.)
 - Wait 1 day after application before planting.
 - For best results, add 3" of Miracle-Gro Garden Soil to your garden. Rototill or spade to a depth of 6", mixing well.
 - Feed flowering (new) plants every 2 weeks with Miracle-Gro Plant Food (follow package instructions).

WHEN TO REPLANT [optional illustration]

- All ornamental flowers, trees and shrubs may be planted 2 days after application.
- Lawn grasses may be planted 7 days after application.

HOW IT WORKS [optional illustration]

MON 78307 (Roundup) enters plants through foliage and moves systemically to the roots, killing weeds by stopping the production of a substance found in plants. Any product (Roundup) not absorbed by plants will be deactivated when it hits the soil. Weeds usually yellow and wilt within hours with complete kill in 1 to 2 weeks.

KILLS ALL TYPES OF WEEDS & GRASSES [optional illustration]

Weeds (including): Artichoke thistle, beggarweed, black medic, blue mustard, blue toadflax, brassbuttons, broadleaf plantain, burclover, buttercup, Canada thistle, cattail, chickweed, cocklebur, common groundsel, common mullein, common plantain, common ragweed, creeping beggarweed, creeping-charlie, curly dock, dandelion, dog fennel, evening primrose, false dandelion, fiddleneck, field bindweed (wild morningglory), field pennycress, filaree, Florida pusley, garden spurge, henbit, horsenettle, horseradish, horseweed/ marestail, iceplant, knapweed, knotweed, lambsquarters, lantana, little bittercress, London rocket, mallow, mayweed, milkweed, mouseear chickweed, narrowleaf (buckhorn) plantain, nightshade (silverleaf), oldenlandia, oxalis, Pennsylvania smartweed, pennywort, poison hemlock, prickly lettuce, primrose, prostrate spurge, puncturevine, ragweed, red clover, redroot pigweed, shepherdspurse, smooth catsear, smooth pigweed, sowthistle, spotted spurge, tansy ragwort, tansymustard, teaweed, trumpetcreeper, tumble mustard, Virginia creeper, white clover, whitetop, wild barley, wild mustard, wild oats, wild sweet potato, yellow starthistle, and other broadleaf weeds

Grasses (including): Annual bluegrass, annual ryegrass, bahiagrass, barnyardgrass, bentgrass, Bermudagrass, bromegrass, Cogongrass, crabgrass, creeping bentgrass,

MON 78307 Herbicide EPA Reg No. 71995-new EO

dallisgrass, fall panicum, fescue, field sandbur, foxtail, goosegrass, guineagrass, Johnsongrass, Kentucky bluegrass, kikuyugrass, lovegrass, maidencane, nimblewill, nutsedge, orchardgrass, pampas grass, perennial ryegrass, purple nutsedge, quackgrass, sandspur, smooth bromegrass, sprangletop, St. Augustinegrass, tall fescue, Texas panicum, Timothy, torpedograss, vaseygrass, witchgrass, yellow nutgrass, zoysia and other grassy weeds

Brush (Tough Weeds), Unwanted Trees, Shrubs & Vines (including):

Alder, ash, (quacking) aspen, blackberry, bluegum eucalyptus, broom (French, Scotch), buckwheat, ceanothus, chamise, cherry, coyote brush, dewberry, elderberry, elm, eucalyptus, giant reed, hawthorn, hazel, honeysuckle, kudzu, locust, madrone, maple, oak, persimmon, poison oak, poison ivy, poplar, raspberry, sage, sagebrush, salmonberry, saltcedar, sassafras, sumac, sweetgum, tan oak, thimbleberry, tree tobacco, wild rose (multiflora) willow and other tough weeds

STORAGE AND DISPOSAL [trash can illustration]

STORAGE: Store in original container in a safe place.

DISPOSAL: Empty Container: Put in trash. (Recycle where available.) Partially Full Container: Call your local waste disposal service (1-800-CLEANUP). If local laws permit, put partially full container in trash. Never pour product down any drain.

PRECAUTIONARY STATEMENTS [optional illustration]

[re-entry icon] People and pets may enter treated area after spray has dried.

HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION:

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

Harmful if inhaled. Avoid breathing spray mist. Remove contaminated clothing and wash clothing before reuse.

information.

	FIRST AID
If in eyes	 Hold eye open and rinse slowly and gently for 15-20 minutes Remove contact lenses, if present, after first 5 minutes, then continue rinsing. Call a poison control center (1-800-225-2883 or 1-888-768-6387 or 1-888-Roundup) or doctor for treatment advice.
If inhaled	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center (1-800-225-2883 or 1-888-768-6387 or 1-888-Roundup) or doctor for treatment advice.
	Emergency Medical Information
center or do	roduct container or label with you when calling a poison control octor, or going for treatment. You may contact 1-800-225-2883 -6387 or 1-888-Roundup) for emergency medical treatment

ENVIRONMENTAL HAZARDS: Do not apply directly to any body of water. Do not contaminate water when disposing of equipment washwaters.

NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.

This product is protected by U.S. Patents No. 5,683,958 and No. 5,703,015 and No. 6,063,733 and No. 6,121,199 and No. 6,121,200. Other patents pending. No license granted under any non-U.S. patent(s).

This is an end-use product. Monsanto does not intend and has not registered if for reformulation or repackaging.

[phone icon] Questions, Comments or	Medical Information	
call 1-800-225-2883	www.roundup.com	
(call 1-888-Roundup)		

Roundup is a trademark of Monsanto Company

©[___] MONSANTO COMPANY

Manufactured for Monsanto Company, Lawn & Garden Products P.O. Box 1750 Columbus, OH 43216 Form [___] MON 78307 Herbicide EPA Reg No. 71995-new E △

EPA Reg. No. 71995-new EPA Est. 239-IA-3^I, 58996-MO-1^A Superscript is first letter of lot number Made in USA

APPENDIX 1 - Consolidated List of Label Claims

[Ordered aphabetically]

- Absorbed into both broadleaf and grassy weeds
- Absorbs on contact, starts working immediately
- Absorbs 3 times (X) faster to the root than competitive brands for quicker, more effective root kill
- Also use for large jobs such as lawn renovation and vegetable and flower garden preparation
- · Approved for most (many) lawn and garden uses
- Before [weed graphics] / After [weed graphics]
- Begins absorbing on contact
- Can be used for habitat restoration, controlling exotic vegetation, and for site preparation of wildlife food plots
- Can reseed or sod lawns 7 days after treatment
- Concentrated for extra value
- Contains FastAct™ (technology)
- Covers up to 300 sq ft per gallon of spray
- Dare to compare (a picture is worth 1,000 words): Roundup works faster than any competitor (imitator)
- Dead Weeds Guaranteed
- Dead Weeds Guaranteed or Your Money Back
- · Dead (weeds) in a day
- · Does not have soil activity
- Economical
- Economical concentrate formula
- Easy to apply with an Ortho Dial 'n Spray®, hose-end, tank or (hand held) trigger sprayer
- Even if it rains Roundup won't lose its effectiveness
- Exclusive Roundup formula
- Experience the Roundup Advantage (peel back this panel for detail) (see details inside / underneath this booklet) (see details on back panel)
- Fast-acting formula
- Fast-acting formula works twice as fast (50% faster)
- Fast-acting formula absorbs to root more quickly
- Faster than ever
- Fastest Roundup (formulation) ever
- For control that doesn't (won't) wash away
- For general weed control kills weeds and grasses in 2 to 4 weeks roots and all
- For weeds that are dead in a (one) day
- Guaranteed same effective results even if it rains within hours
- Guaranteed effective: Kills over 200 types of weeds and grasses, roots and all, with

MON 78307 Herbicide EPA Reg No. 71995-new € ○

just one application

- Guaranteed (we guarantee it)
- Ideal for killing unwanted weeds and grasses throughout your yard. Use along fences; in cracks of walks, drives and patios; and around flower beds, trees and shrubs
- Imitators (competitors) (other weedkillers) cannot match Roundup's proven performance: [picture of Roundup versus generic competitors]
- Improved extra strength formula
- Improved formula, completely kills even the toughest weeds and grasses
- Keeps driveways, walkways, landscaping beds, and flower gardens weed-free all season long
- · Kills almost all (annual and perennial) weeds, grasses and other unwanted plants
- Kills existing weeds only, no residual activity in soil
- · Kills more weeds in more places.
- · Kills over 100 weeds
- · Kills (to) the root
- Kills (the toughest weeds and grasses) the root so weeds (they) don't come back
- Kills the root so weeds don't come back
- Kills the roots of (both) broadleaf and grassy weeds
- Kills the weed you see and the root you don't
- · Kills unwanted weeds and grasses, roots and all
- Kills weeds in flowerbeds, around trees, shrubs and fences, and on patios, paths, sidewalks, sidewalk cracks, walkways, driveways, and other areas in your yard
- Kills weeds, roots and all
- Lawns and gardens can be reseeded or planted soon after treatment
- Make only what you need
- Multipurpose grass and broadleaf weed control
- · NEW!
- Next day (this weekend) results: Begins killing on contact, visible results in 24 hours
- · No odor
- No root. No weed. No problem.
- Nobody kills more weeds
- Nobody's better than Roundup
- Nobody's faster
- Nobody's better
- Nothing is more effective
- Nothing works better
- Nothing kills more weeds
- NOW!
- Now a shorter wait for replanting!
- · Once it enters the plant, it won't wash off
- One application kills over 200 types of weeds and grasses, roots and all (maximum effectiveness)
- Only Roundup's effectiveness (formula) won't be washed away by rain or watering 2 hours (1 hour)(30 minutes) after treatment
- Proven (trusted) performance: Only Roundup works the first time, every time and

MON 78307 Herbicide EPA Reg No. 71995-new E○

has for 25 years

- Provides maximum control: Kills weeds to the root so they don't ever come back
- Quick kill formula (the toughest)
- Quick-action formula lets you see results 50% faster than other brands
- Quick-action formula lets you see results two times faster than other brands
- Ornamental gardens can be reseeded or planted 1 day after treatment
- · RainFast in hours enters the plant on contact
- RAIN-PROOF™ (Mistake Proof)
- RAIN-PROOF™ in two hours (30, 60, or 90 minutes)
- Roundup can be used (almost) anywhere weeds and grasses grow, including patios, walkways, and driveways; along fences; in landscaping beds; or around flowers, shrubs and trees
- (Roundup) Kills the weed you see and the root others leave behind
- Roundup's exclusive (patented) formula (technology) kills to the root so weeds don't come back
- Roundup kills weeds and grasses in Patios Driveways Sidewalks Ornamental Gardens and other non-lawn areas
- · Satisfaction guaranteed or we will gladly refund purchase price
- Satisfaction guaranteed or your money back with proof of purchase
- See results in hours
- See results in 24 hours
- Speeds absorption to the root for complete kill
- Spray weeds (Use) in flowerbeds, around trees, shrubs and around fences, and on patios, paths, sidewalks, sidewalk cracks, walkways, driveways, and other areas in your yard
- · Starts to kill in hours
- Starts working immediately (in hours)
- Stronger
- The best weed killer you can buy guaranteed (we guarantee it)
- The fastest weed killer (starts working immediately)
- The fastest concentrate formula
- The most effective weed (and grass) killer (you can buy)
- The strongest weed and grass killer you can buy: Guaranteed
- Superior results
- Transorb technology speeds Roundup to the root to kill even tough weeds
- Twice as fast
- Ultra concentrated formula
- Ultra formula
- (Use) For Brush Control
- (Use) For General Weed Control: Use along fences, paths, patios, sidewalks and driveways, around trees, shrubs, ornamental plantings, flowerbeds, and buildings, and in brick and gravel walkways.
- Use to trim and edge landscape areas.
- (Use) For Landscaping: Use to prepare areas for planting of ornamentals, trees, shrubs, desert landscapes, rock gardens, flowerbeds or similar plantings.
- Use for large jobs like garden plot preparation and lawn replacement (renovation)

MON 78307 Herbicide EPA Reg No. 71995-new EO

- (Use) For Lawn Renovation
- (Use) For Spot Spraying: Use in and around flowerbeds, ornamental trees, shrubs, fences, driveways and walkways
- (Use) For Stumps
- (Use) For Wildlife Areas: Use to prepare areas for planting wildlife food. Exotic or undesirable plants can be controlled to allow for planting or recovery of native plant species. Spot treatments can be made to selectively remove unwanted plants.
- (Use in) Apply with a Big Shot™ Multi-Purpose Sprayer or other tank sprayer, Ortho Dial 'n Spray® or other hose-end sprayer, or a (hand held) trigger sprayer
- Use to prepare sites: for large plantings, for planting flowerbeds and ornamentals gardens, and for renovating lawns
- Visible effects are gradual wilting and yellowing advancing to complete browning and root destruction.
- · Water based formula
- · Won't wash off
- · Won't wash away
- · Works first time, every time
- Works in hours
- Works only when absorbed by the foliage of weeds
- [Promotional options]
- Save up to \$[x] on (your) next purchase
- Free weed guide inside
- Free [] with this purchase of Roundup concentrate quart
- FREE REFILL
- FREE SAMPLE
- SAMPLE NOT FOR SALE

APPENDIX 2 - Packaging Related Claims

NET xx fl oz (qt or gal) (xx mL or L) 6 fl oz (177 mL) 13 oz (384 mL) 16 fl oz (1 pt) (473 mL) 32 fl oz (1 qt) 946 mL) 53.7 fl oz (0.42 gal) (1.5 L) 64 fl oz (1/2 gal) (1.89 L) 128 fl oz (1 gal) (3.79 L)

[corner flap] OPEN

Resealable Label for Directions & Precautions

PULL HERE TO OPEN LABEL

PEEL HERE

PEEL OPEN FOR USE DIRECTIONS AND FURTHER INFORMATION PRESS TO RESEAL

[Net contents] Makes up to 'X' gallons

Makes between 'X' - 'Y' gallons

Mix with water to make 'X' gallons of spray solution

Covers up to 'Z' sq ft

Mix with water to cover up to 'Z' sq ft

[$X = net contents \div 3$] [$Y = net contents \div 6$] [Z = X * 300]

[Pint]

Makes up to 5 gallons

Makes between 21/2 - 5 gallons

Mix with water to make 5 gallons of spray solution

Covers up to 1,500 sq ft

Mix with water to cover up to 1,500 sq ft

[Quart]

Makes up to 10 gallons

Makes between 5 - 10 gallons

Mix with water to make 10 gallons of spray solution

Covers up to 3,000 sq ft

Mix with water to cover up to 3,000 sq ft

[0.42 Gallon] Makes up to 18 gallons

Makes between 9 – 18 gallons

Mix with water to make 18 gallons of spray solution

Covers up to 5,400 sq ft

MON 78307 Herbicide EPA Reg No. 71995-new どる

Mix with water to cover up to 5,400 sq ft

[Half Gallon] Makes up to 21 gallons

Makes between 10 - 21 gallons

Mix with water to make 21 gallons of spray solution

Covers up to 6,300 sq ft

Mix with water to cover up to 6,300 sq ft

[Gallon] Makes up to 42 gallons

Makes between 21 - 42 gallons

Mix with water to make 42 gallons of spray solution

Covers up to 12,600 sq ft

Mix with water to cover up to 12,600 sq ft

New! Larger size, covers up to ['Z'] sq ft

With (the convenient) measuring cup, mixing MON 78307 (controlling weeds around your home) has never been easier

With (the convenient) measuring cup, controlling weeds all around your home has never been this fast and easy

Section D

Residue Removal Procedures

There are no food or feed uses included in the MON 78307 herbicide label, therefore, residue removal is unnecessary.

Section E

Effectiveness Data

Monsanto requests that the Administrator waive the requirement of efficacy data under provision 3(c)(5) of FIFRA as amended.

Section F

Tolerances

There are no food or feed uses included in the MON 78307 herbicide label, therefore, residue removal is unnecessary.

Section G

Reasonable Grounds

Reasonable Grounds in Support of the Registration of MON 78307:

The introduction of MON 78307 (Reg. No. 71995-XXX) will provide residential consumers with a fast acting concentrated product in the Roundup portfolio.

